

STMRE

Fri Feb 12 17:21:13 1999

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Test Suite Overview

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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_2_a_UUS2_explicit_non_essential_request		UUS2 explicit non-essential – request	1890
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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_I_6_2_8_b_Service_rejected_received_in_the_REL_message_for_UUS2		Rejection of UUS2 explicit essential – request	1923
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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_10_Discard_the_usertouser_information_if_more_than_two_messages_received_during_a_call_set_up	OLE	Discard the user-to-user information if more than two messages received during a call set up	1931
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_I_6_2_11_Pass_on_one_of_the_USR_received_just_after_ANM	OLE	Pass on one of the USR received just after ANM	1935
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_I_6_2_12_Non_essential_service_rejected_in_UUS2	Gateway_TSP_UUS_REJ_EXP	Rejection of UUS2 explicit essential – request	1939
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_I_6_2_13_Deliver_usertouser_information_in_USR_after_ANM	DLE_PICS9_7	Deliver user-to-user information in USR after ANM	1942

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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_14_b_UUS2_interaction_with_UUS1_or_UUS3_unsuccessful_request	Local_TSP_UUS_EXPLICIT_OTSP_UUS_UUS3	UUS2 interaction with UUS1 (or UUS3) – unsuccessful request	1949
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_15_a_UUS2_interaction_with_UUS1_or_UUS3_independent_acceptance_or_rejection_of_the_services	Local_TSP_UUS_EXPLICIT_OTSP_UUS_UUS3	UUS2 interaction with UUS1 (or UUS3) – independent acceptance or rejection of the services	1952
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_15_b_UUS2_interaction_with_UUS1_or_UUS3_independent_acceptance_or_rejection_of_the_services	Local_TSP_UUS_EXPLICIT_OTSP_UUS_UUS3	UUS2 interaction with UUS1 (or UUS3) – independent acceptance or rejection of the services	1956
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_16_a_UUS2_interaction_with_UUS3_requested_after_call_set_up	Local_TSP_UUS_UUS3	UUS2 interaction with UUS3 requested after call set up	1960
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 2/	ISS_V_6_2_16_b_UUS2_interaction_with_UUS3_requested_after_call_set_up	Local_TSP_UUS_UUS3	UUS2 interaction with UUS3 requested after call set up	1965
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_1_32_octets_user_information	OLE_TSP_UUS_PAR_32	32 octets user-to-user information	1970
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_2_a_Rejected_of_UUS3_after_call_set_up_if_rejected_at_call_set_up	Local	Rejected of UUS3 after call set up, if rejected at call set up	1974
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_2_b_Rejected_of_UUS3_after_call_set_up_if_rejected_at_call_set_up	Local	Rejected of UUS3 after call set up, if rejected at call set up	1978
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_3_a_UUS3_explicit_nonessential_request		UUS3 explicit non-essential – request	1982
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_3_b_IUT_transits_a_call_for_UUS3_explicit_nonessential_request		UUS3 explicit nonessential – request	1986
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_4_a_UUS3_explicit_nonessential_acceptance		UUS3 explicit non-essential – acceptance	1989
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_V_6_3_4_b_UUS3_explicit_nonessential_acceptance		UUS3 explicit non-essential – acceptance	1993
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_I_6_3_5_UUS3_explicit_nonessential_rejection_no_indication		UUS3 explicit non-essential – rejection, no indication	1996
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_I_6_3_6_a_UUS3_explicit_nonessential_rejection		UUS3 explicit non-essential – rejection	1999
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_I_6_3_6_b_a_UUS3_explicit_nonessential_rejection		UUS3 explicit non-essential – rejection	2003
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS 3/	ISS_I_6_3_6_b_b_UUS3_explicit_nonessential_rejection		UUS3 explicit non-essential – rejection	2007

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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_I_6_3_6_c_b_Non_essential_service_rejected_in_UUS3		Rejection of UUS3 explicit non essential – request	2013
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_V_6_3_7_a_UUS3_explicit_essential_request		UUS3 explicit essential – request	2016
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_V_6_3_7_b_IUT_transits_a_call_for_UUS3_explicit_essential_request		UUS3 explicit nonessential – request	2020
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_V_6_3_8_a_UUS3_explicit_essential_acceptance		UUS3 explicit essential – acceptance	2023
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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_I_6_3_9_b_Service_rejected_received_in_the_REL_message_for_UUS3		Rejection of UUS3 explicit essential – request	2033
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_V_6_3_10_a_UUS3_explicit_nonessential_request_during_the_active_phase_of_the_call		UUS3 explicit non-essential – request during the active phase of the call	2035
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ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_V_6_3_15_a_UUS3_interaction_with_UUS1_or_UUS2_Independent_acceptance_or_rejection_of_the_services	Local_TSP_ UUS_EXPLI CIT_OTSP_ UUS_UUS2	UUS3 interaction with UUS1 (or UUS2) – Independent acceptance or rejection of the services	2058
ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/	ISS_V_6_3_15_b_UUS3_interaction_with_UUS1_or_UUS2_Independent_acceptance_or_rejection_of_the_services	Local_TSP_ UUS_EXPLI CIT_OTSP_ UUS_UUS2	UUS3 interaction with UUS1 (or UUS2) – Independent acceptance or rejection of the services	2062

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ISUP_Supplementary_Services/ISS_7_CUG/	ISS_V_7_1_CUG_without_outgoing_access_in_IAM	OLE		2070
ISUP_Supplementary_Services/ISS_7_CUG/	ISS_V_7_2_CUG_call_outgoing_call_outgoing_access_not_allowed	InterME	Transfer of information related to CUG	2073
ISUP_Supplementary_Services/ISS_7_CUG/	ISS_V_7_3_CUG_call_outgoing_access_not_allowed_convert_national_interlock_code_to_international	Gateway_TSP_CUG_CODE	Conversion of the interlock code	2075
ISUP_Supplementary_Services/ISS_7_CUG/	ISS_I_7_4_CUG_call_succeeding_network_does_not_support_CUG_receive_facility_rejected	IncIE_NTSP_SUPPORT_CUG_TSP_NS_CUG_REJ	ED? CUG call without outgoing access, action at the gateway with network without CUG capability	2078
ISUP_Supplementary_Services/ISS_7_CUG/	ISS_I_7_5_CUG_call_outgoing_access_allowed_succeeding_network_does_not_support_CUG	IncIE_NTSP_SUPPORT_CUG_TSP_NS_CUG_REJ	CUG call with outgoing access, action at the gateway interworking with network without CUG capability	2080
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ISUP_Supplementary_Services/ISS_7_CUG/	ISS_V_7_12_CUG_call_without_outgoing_access_class_of_called_user_CUG_with_IA_and_ICB_activated	DLE		2101
ISUP_Supplementary_Services/ISS_7_CUG/	ISS_V_7_13_CUG_call_with_outgoing_access_class_of_called_user_CUG_with_IA_and_ICB_activated	DLE		2104
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ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_24_IUT_sets_the_presentation_indicator_of_original_called_num_to_allowed	DLE	Setting of redirection counter in the diverting exchange – multiple local diversions	2646
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ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_26_a_IUT_converts_ISUP_not_reqd_to_ISUP_preferred	DLE	IUT converts ISUP not required to ISUP preferred	2652
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_26_b_IUT_keeps_ISUP_preferred_unchanged	DLE	Keeping ISUP preferred unchanged.	2655

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ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_26_c_IUT_keeps_ISUP_required_unchanged	DLE	Keeping ISUP required unchanged.	2658
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_27_IUT_sets_CDmo_in_OBCI	DLE	IUT sets Call Diversion may occur in Optional Backward Call Indicator.	2661
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_28_a_Served_user_answers_the_call_before_TCFNR_expiry	DLE_TSP_CFNR_CD_SUP_CALL		2665
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_H_12_28_b_IUT_forwards_the_call_after_CFNR_timeout	DLE_TSP_CFNR_CD_SUP_CALL	IUT sets Call Diversion may occur in Optional Backward Call Indicator.	2668
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_29_IUT_connects_incoming_to_outgoing_circuit_immediately	DLE_NTSP_CFNR_CD_RET_CALL	IUT can connect incoming to chosen outgoing circuit immediately	2672
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_30_IUT_throughconnects_in_the_backward_direction_after_receiving_alerting	DLE_TSP_CFNR_CD_RET_CALL	IUT throughconnects in the backward direction after receiving alerting	2676
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_31_Served_user_answers_before_receipt_of_alerting_in_dication_from_divertedto_exchange	DLE_TSP_CFNR_CD_RET_CALL		2680
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_32_Unsuccessful_call_setup_to_the_divertedto_user_ringing_tone_applied_by_the_diverting_exchange	DLE_TSP_CFNR_CD_RET_CALL		2684
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_33_IUT_receives_release_from_diverted_to_exchange	DLE_NTSP_CFNR_CD_RET_CALL	IUT releases resources if it receives a release from the diverted-to exchange	2688
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_H_12_34_IUT_stores_diversion_information_in_backward_direction	DLE_TSP_CFNR_CD_RET_CALL	IUT stores the latest diversion information received in the backward direction	2691
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_35_IUT_passes_diversion_information_in_backward_direction	DLE_NTSP_CFNR_CD_RET_CALL	IUT passes the diversion information received in the backward direction	2696
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_36_IUT_maps_CON_to_CPG_followed_by_ANM	DLE_TSP_CFNR_CD_RET_CALL	IUT maps CON to CPG followed by ANM.	2701
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_37_IUT_maps_CON_to_CPG_followed_by_ANM	DLE_NTSP_CFNR_CD_RET_CALL	IUT maps CON to CPG followed by ANM.	2704
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_38_IUT_receives_no_ACM_from_forwarded_to_exchange	DLE	IUT receives no ACM with T7 time from the forwarded-to exchange.	2707
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_39_IUT_receives_no_ANM_from_forwarded_to_exchange	DLE	IUT receives no ANM within T9 time from the forwarded-to exchange.	2711
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_40_a_IUT_releases_CFU_call_when_redirection_counter_is_maximum	DLE_TSP_CDIV_MAX_5_NTSP_CFNR_CD_RET_CALL	IUT releases call when redirection counter exceeds maximum value.	2715
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_40_b_IUT_releases_CFB_call_when_redirection_counter_is_maximum	DLE_TSP_CDIV_MAX_5_NTSP_CFNR_CD_RET_CALL	IUT releases call when redirection counter exceeds maximum value.	2718

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ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_40_c_IUT_releases_CD_immediate_response_call_when_redirection_counter_is_maximum	DLE_TSP_CDIV_MAX_5_NTSP_C_FNR_CD_RET_CALL	IUT releases call when redirection counter exceeds maximum value.	2721
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_40_d_IUT_releases_CD_alerting_call_when_redirection_counter_is_maximum	DLE_TSP_CDIV_MAX_5_NTSP_C_FNR_CD_RET_CALL	IUT releases call when redirection counter exceeds maximum value.	2724
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_40_e_IUT_releases_CF_NR_call_when_redirection_counter_is_maximum	DLE_TSP_CDIV_MAX_5_NTSP_C_FNR_CD_RET_CALL	IUT releases call when redirection counter exceeds maximum value.	2727
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_41_a_Continue_providing_ringing_tone_in_the_diverting_exchange_redirection_counter_set_to_maximum_value	DLE_TSP_CDIV_MAX_5_TSP_C_FNR_CD_RET_CALL		2730
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_41_b_Continue_providing_ringing_tone_in_the_diverting_exchange_redirection_counter_set_to_maximum_value	DLE_TSP_CDIV_MAX_5_TSP_C_FNR_CD_RET_CALL		2733
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_42_IUT_sets_the_required_propagation_delay_value_for_the_diverted_call	DLE_TSP_BASIC_CALL_13_11	Setting of redirection counter in the diverting exchange – multiple local diversions	2736
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_43_a_IUT_passes_connected_and_generic_number_at_diverting_exchange	DLE_TSP_SUPPORT_C_OLP	Setting of redirection counter in the diverting exchange – multiple local diversions	2740
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_43_b_IUT_passes_connected_and_generic_number_at_diverting_exchange	DLE_TSP_SUPPORT_C_OLP	Setting of redirection counter in the diverting exchange – multiple local diversions	2744
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_44_IUT_diverts_calling_and_additional_calling_party_number	DLE_TSP_SUPPORT_C_LIP	IUT diverts the calling party number and the additional calling party number	2748
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_45_Call_diversion_interaction_with_CUG_CUG_call_not_diverted	DLE_TSP_SUPPORT_C_UG		2752
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_46_IUT_forwards_CUG_restrictions	DLE_TSP_SUPPORT_C_UG	IUT forwards CUG restrictions	2755
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_47_IUT_does_not_divert_called_party_subaddress	DLE_TSP_SUPPORT_S_UB	IUT diverts the calling party number and the additional calling party number	2759
ISUP_Supplementary_Services/ISS_12_CDIV/	ISS_V_12_48_IUT_adds_diverted_to_party_subaddress	DLE_TSP_SUPPORT_S_UB	IUT adds diverted-to party subaddress	2763
ISUP_Supplementary_Services/ISS_13_HOLD/	ISS_V_13_1_Call_hold_after_answer_requested_by_the_local_user	Local		2767
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ISUP_Supplementary_Services/ISS_13_HOLD/	ISS_V_13_7_a_Call_hold_after_alerting_by_calling_user	IntermE	Call hold after alerting (transit call) – held by calling user	2793
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ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_I SUP/	ISS_V_15_13_Maximum_number_of_CCBS_request_queue_entries_of_destination_B	DLE_TSP_CCBS_SUP_5QUE		2891
ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_I SUP/	ISS_V_15_14_Incoming_nonCCBS_call_with_identical_service_requirements_released	DLE		2895
ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_I SUP/	ISS_V_15_15_Incoming_nonCCBS_call_with_not_identical_service_requirements_accepted	DLE		2901
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ISUP_Supplementary_Servi ces/ISS_15_CCBS/CCBS_ ASE/	ISS_TC_I_15_17_Support_of_the _CCBS_service_supervision_timer _CCBST7	DLE		2965
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ISUP_Supplementary_Services/ISS_16_THREE_PTY/	ISS_V_16_8_Served_user_initiates_3PTY_interaction_with_HOLD	Local		3042
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Generic_steps/	check_no_tone	Currently dummy step. Included in order to keep conformance to standards and for future use.	3051
Generic_steps/	check_no_channel	Currently dummy step. Included in order to keep conformance to standards and for future use.	3051
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Generic_steps/	check_idle	Currently dummy step. Included in order to keep conformance to standards and for future use.	3054
Generic_steps/	check_no_through_connection	Currently dummy step. Included in order to keep conformance to standards and for future use.	3054
Generic_steps/	check_ringing_tone_at_non_isup_pco	Currently dummy step. Included in order to keep conformance to standards and for future use.	3055
Generic_steps/	postamble	Generic postamble for all test cases.	3055
Generic_steps/	preamble	Generic preamble for all test cases.	3056
Generic_steps/	ringing_tone	Currently dummy step. Included in order to keep conformance to standards and for future use.	3056
Generic_steps/	TWAIT	Delay step	3057
ISUP_steps/	A_CALL_SETUP	General message sequence send IAM, receive ACM, receive ANM. Message constraints delivered as parameters	3058
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ISUP_steps/	A_CALL_SETUP_AND_HOLD_U A	General message sequence receive IAM, send ACM, send ANM then wait for CPG. Message constraints delivered as parameters	3060
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ISUP_steps/	A_RECEIVE	General message sequence send MSG, receive MSG. Message constraints delivered as parameters	3065

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ISUP_steps/	A_RECEIVE_CONF_OTH_PTY_A DD		3071
ISUP_steps/	A_RECEIVE_CONF_START		3072
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ISUP_steps/	B_SEND_CALL_REL_A_CIC	General send REL receive RLC from B side of the call.	3099
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Access_steps/	A_access_SEND	General message sequence send. Message constraint delivered as parameters	3160
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TCAP_steps/	B_CCBS_Invocation_AB	TCAP transactions for invoking CCBS.	3177
TCAP_steps/	B_CCBS_Invocation_BA	TCAP transactions for invoking CCBS.	3178
Detailed Comments :			

II

Declarations Part

Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
BIT_1	BITSTRING[1]		
BIT_2	BITSTRING[2]		
BIT_3	BITSTRING[3]		
BIT_4	BITSTRING[4]		
BIT_5	BITSTRING[5]		
BIT_6	BITSTRING[6]		
BIT_7	BITSTRING[7]		
BIT_8	BITSTRING[8]		
BIT_12	BITSTRING[12]		
BIT_14	BITSTRING[14]		
HEX_1	HEXSTRING[1]		
HEX_4	HEXSTRING[4]		
HEX_6	HEXSTRING[6]		
HEX_N	HEXSTRING		
OCT_1	OCTETSTRING[1]		
OCT_2	OCTETSTRING[2]		
OCT_3	OCTETSTRING[3]		
OCT_4	OCTETSTRING[4]		
OCT_5	OCTETSTRING[5]		
OCT_6	OCTETSTRING[6]		
OCT_7	OCTETSTRING[7]		
OCT_N	OCTETSTRING		
OCT_1_32	OCTETSTRING[1..32]		
BS8	BITSTRING[8]		bitstring of length 8
circuitIC_type	BIT_12		
CR_LENGTH_TYPE	INTEGER(1,2)		Call reference length type
Message_type	BIT_8		2.1 / Q.763
MT	BITSTRING[8]		Message type
Parameter_type	BIT_8		
PD	BITSTRING('00001000'B)		Protocol discriminator
Detailed Comments :			

Structured Type Definition			
Type Name : Access_delivery_information Encoding Variation : Comments : 3.2 / Q.763 FS : 2.3.3.1 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
AccessDel	BIT_1		Access delivery indicator
Spare	BIT_7		
Detailed Comments :			

Structured Type Definition			
Type Name : Access_transport Encoding Variation : Comments : 3.3 / Q.763 FS : 2.3.3.2 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
ATP_field	OCT_N		Information elements
Detailed Comments :			

Structured Type Definition			
Type Name : Additional_charging_information Encoding Variation : Comments : FS : 2.3.3.3 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
AddChargeInfo	BIT_8		Additional charging info
Detailed Comments :			

Structured Type Definition			
Type Name : Additional_routing_information Encoding Variation : Comments : FS : 2.3.3.4 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
AddRoutInfo	OCT_2		Additional routing info
Detailed Comments :			

Structured Type Definition			
Type Name : Automatic_congestion_level Encoding Variation : Comments : 3.4 / Q.763 FS : 2.3.3.5 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CongLevel	BIT_8		Automatic congestion level
Detailed Comments :			

Structured Type Definition			
Type Name : Backward_GVNS			
Encoding Variation :			
Comments : FS : 2.3.3.7 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
TerminatingAccessInd	BIT_2		Terminating access indicator
Spare	BIT_5		
ExtensionInd	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Backward_call_indicators			
Encoding Variation :			
Comments : 3.5 / Q.763 FS : 2.3.3.6 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
ChargeInd	BIT_2		Charge indicator
CalledPartyStatusInd	BIT_2		Called party's Status indicator
CalledPartyCatInd	BIT_2		Called party's category indicator
EndToEndInd	BIT_2		End-to-end method indicator
InterworkingInd	BIT_1		Interworking indicator
EndToEndInfoInd	BIT_1		End-to-end information indicator
ISUPInd	BIT_1		ISDN User Part indicator
HoldingInd	BIT_1		Holding indicator @
ISDNAccessInd	BIT_1		ISDN access indicator
EchoControlDevInd	BIT_1		Echo control device indicator
SCCPMethodInd	BIT_2		SCCP method indicator
Detailed Comments : @ only for national use			

Structured Type Definition			
Type Name : CCBS_parameter			
Encoding Variation :			
Comments : FS : 2.3.3.19 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CCBSCallInd	BIT_1		CCBS call indicator
Spare	BIT_7		
Detailed Comments :			

Structured Type Definition			
Type Name : Call_diversion_information			
Encoding Variation :			
Comments : 3.6 / Q.763 FS : 2.3.3.8 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NotificationSubscriptionOptions	BIT_3		Notification subscription options
RedirectionReason	BIT_4		Redirection reason
Spare	BIT_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Call_diversion_treatment_indicators			
Encoding Variation :			
Comments : FS : 2.3.3.9 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CallDivertedInd	BIT_2		Call to be diverted indicator
Spare	BIT_5		
ExtensionInd	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Call_history_information Encoding Variation : Comments : 3.7 / Q.763 FS : 2.3.3.10 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
PropagatDelayValue	OCT_2		Propagation delay value
Detailed Comments :			

Structured Type Definition			
Type Name : Call_offering_treatment_indicators Encoding Variation : Comments : FS : 2.3.3.11 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CallOfferedInd	BIT_2		Call to be offered indicator
Spare	BIT_5		
ExtensionInd	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Call_reference Encoding Variation : Comments : 3.8 / Q.763			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CRef_contents	OCT_5		1.
Detailed Comments : 1. The contents of this message are not subdivided because this parameter is for national use only.			

Structured Type Definition			
Type Name : Call_transfer_number			
Encoding Variation :			
Comments : FS : 2.3.3.12 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEvenInd	BIT_1		Odd/even indicator
ScreeningInd	BIT_2		Screening indicator
AddrPresRestrictionInd	BIT_2		Address presentation restriction indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
Spare	BIT_1		
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Call_transfer_reference			
Encoding Variation :			
Comments : FS : 2.3.3.13 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CallTransferId	BIT_8		Call transfer identity
Detailed Comments :			

Structured Type Definition			
Type Name : Call_transfer_treatment_indicators			
Encoding Variation :			
Comments : FS : 2.3.3.14 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CallTransferredInd	BIT_2		Call to be transferred indicator
Spare	BIT_5		
ExtensionInd	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Called_party_number Encoding Variation : Comments : 3.9 / Q.763 FS : 2.3.3.15 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEven	BIT_1		Odd/even indicator
Spare	BIT_4		
NumberingPlanInd	BIT_3		Numbering plan indicator
INNInd	BIT_1		Internal network number indicator
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Calling_party_number Encoding Variation : Comments : 3.10 / Q.763 FS : 2.3.3.16 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEven	BIT_1		Odd/even indicator
ScreeningInd	BIT_2		Screening indicator
AddrPresentRestInd	BIT_2		Address presentation restricted indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
NIInd	BIT_1		Calling party number incomplete indicator
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Calling_partys_category Encoding Variation : Comments : 3.11 / Q.763 FS : 2.3.3.16 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CallingPartysCategory	BIT_8		Calling party's category
Detailed Comments :			

Structured Type Definition			
Type Name : Cause_indicators Encoding Variation : Comments : 3.12 / Q.763 FS : 2.3.3.18 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
Location	BIT_4		Location
Spare	BIT_1		
CodingStandard	BIT_2		Coding standard
Ext1	BIT_1		Extension indicator
Reserved	BIT_7		0000000 Rec. Q.763 (default if octet omitted) 1111111 National Recommendation. remaining values are reserved.
Ext1a	BIT_1		Present when Reserved field is present
CauseValue	BIT_7		Cause value
Ext2	BIT_1		Extension indicator
Diagnostics	OCT_N		
Detailed Comments :			

Structured Type Definition			
Type Name : Circuit_group_supervision_message_type_indicator Encoding Variation : Comments : 3.13 / Q.763 FS : 2.3.3.20 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
Type	BIT_2		Type indicator
Spare	BIT_6		
Detailed Comments :			

Structured Type Definition			
Type Name : Circuit_identification_code			
Encoding Variation :			
Comments : FS : 2.1.3 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
CIC	BIT_12		Circuit identification code
Spare	BIT_4		
Detailed Comments :			

Structured Type Definition			
Type Name : Circuit_state_indicator			
Encoding Variation :			
Comments : 3.14 / Q.763 FS : 2.3.3.21 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
length	OCT_1		
CircuitStateIndicator	OCT_N		
Detailed Comments : Fields not substructured due difficult interpretation.			

Structured Type Definition			
Type Name : Closed_user_group_interlock_code			
Encoding Variation :			
Comments : 3.15 / Q.763 FS : 2.3.3.22 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CUGIC_contents	OCT_4		1.
Detailed Comments : 1. The contents of this parameter are not subdivided because valueas are easy to give as hexnumbers.			

Structured Type Definition			
Type Name : Conference_treatment_indicators			
Encoding Variation :			
Comments : FS : 2.3.3.23 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
ConfAcceptanceInd	BIT_2		Conference acceptance indicator
Spare	BIT_5		
ExtensionInd	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Connected_number			
Encoding Variation :			
Comments : 3.16 / Q.763 FS : 2.3.3.24 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicators
OddEven	BIT_1		Odd/even indicator
ScreeningInd	BIT_2		Screening indicator
AddrPresentRestInd	BIT_2		Address presentation restriction indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
Spare	BIT_1		
AddrSignals	HEXSTRING		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Connection_request			
Encoding Variation :			
Comments : 3.17 / Q.763			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
ConRq_contents	OCT_7		1.
Detailed Comments :			
1. The contents of this parameter are not subdivided becauseInd it is not used for basic call.			

Structured Type Definition			
Type Name : Continuity_indicators			
Encoding Variation :			
Comments : 3.18 / Q.763 FS : 2.3.3.25 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
ContInd_field	BIT_1		Continuity indicator
Spare	BIT_7		
Detailed Comments :			

Structured Type Definition			
Type Name : Correlation_id			
Encoding Variation :			
Comments : FS : 2.3.3.26 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CorrelationId	OCT_N		
Detailed Comments : The CorrelationId information is not interpreted by isup, hence it is transferred tranSpaREntly through isup.			

Structured Type Definition			
Type Name : Display_information			
Encoding Variation :			
Comments : FS : 2.3.3.27 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		Display information
length	OCT_1		
DisplayInfo	OCT_N		
Detailed Comments : The DisplayInfo is not interpreted by isup, hence it is transferred transparently through isup.			

Structured Type Definition			
Type Name : Distributed_dynamic_routing_indicators			
Encoding Variation :			
Comments : FS : 2.3.3.28 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
AutoReroutingInd	BIT_1		Automatic re–routing indicator
EventDepRoutingInd	BIT_1		Event dependent routing
Spare	BIT_6		
Detailed Comments :			

Structured Type Definition			
Type Name : Echo_control_information			
Encoding Variation :			
Comments : 3.19 / Q.763 FS : 2.3.3.29 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
OEchoRsl	BIT_2		Outgoing half echo control device response indicator
IEchoRsl	BIT_2		Incoming half echo control device response indicator
OEchoRql	BIT_2		Outgoing half echo control device request indicator
IEchoRql	BIT_2		Incoming half echo control device request indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Event_information			
Encoding Variation :			
Comments : 3.21 / Q.763 FS : 2.3.3.31 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
EventInd	BIT_7		Event indicator
EventPresentRestrInd	BIT_1		Event presentation retriCTION indicator @
Detailed Comments :			

Structured Type Definition			
Type Name : Facility_indicator Encoding Variation : Comments : 3.22 / Q.763 FS : 2.3.3.32 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
FacilityInd	OCT_1		Facility indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Forward_GVNS			
Encoding Variation :			
Comments : FS : 2.3.3.34 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		Used to fill in '0000' in case of odd number of digits
length	OCT_1		
OPSP_Len	BIT_4		
OPSP_Spare	BIT_3		
OPSP_OddEven	BIT_1		
OPSP_AddSign	HEX_N		
OPSP_Filler	HEX_1		
GUG_Len	BIT_4		Used to fill in '0000' in case of odd number of digits
GUG_Spare	BIT_3		
GUG_OddEven	BIT_1		
GUG_AddSign	HEX_N		
GUG_Filler	HEX_1		
TNRN_Len	BIT_4		
TNRN_NumPlanInd	BIT_3		
TNRN_OddEven	BIT_1		
TNRN_NatOfAddInd	BIT_7		
TNRN_Spare	BIT_1		
TNRN_AddSign	HEX_N		
TNRN_Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Forward_call_indicators Encoding Variation : Comments : 3.23 / Q.763 FS : 2.3.3.33 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
NatIntCallInd	BIT_1		National/international call indicator
EndToEndMethInd	BIT_2		End-to-end method indicator
InterworkInd	BIT_1		Interworking indicator
EndToEndInfoInd	BIT_1		End-to_end information indicator
ISUPInd	BIT_1		ISDN User Part indicator
ISUPPreferenceInd	BIT_2		ISDN User Part preference indicator
ISDNAccessInd	BIT_1		ISDN access indicator
SCCPMethodInd	BIT_2		SCCP method indicator
Spare	BIT_1		
Reserved	BIT_2		
VPNCallInd	BIT_2		VPN call indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Freephone_indicators Encoding Variation : Comments : FS : 2.3.3.35 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
FreephoneInd	BIT_1		Freephone indicator
Spare	BIT_7		
Detailed Comments :			

Structured Type Definition			
Type Name : Generic_digits Encoding Variation : Comments : 3.24 / Q.763 FS : 2.3.3.36 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
TypeOfDigits	BIT_5		Type of digits
EncodingScheme	BIT_3		Encoding scheme
Digits	HEX_N		
Detailed Comments :			

Structured Type Definition			
Type Name : Generic_notification_indicator Encoding Variation : Comments : 3.25 / Q.763 FS : 2.3.3.37 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NotificationInd	BIT_7		Notification indicator
ExtInd	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Generic_number Encoding Variation : Comments : 3.26 / Q.763 FS : 2.3.3.38 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NumQualifier	BIT_8		Number qualifier
NatureOfAddrInd	BIT_7		Nature of address indicator
Odd_Even	BIT_1		Odd/even indicator
ScreenigInd	BIT_2		Screening indicator
AddrPresentRestInd	BIT_2		Address presentation restriction indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
NIInd	BIT_1		Number incomplete indicator
AddrSignals	HEX_N		
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Generic_reference Encoding Variation : Comments : 3.27 / Q.763			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
GenRef_contents	OCT_N		1.
Detailed Comments : 1. The contents of this parameter are not subdivided becauseInd it is not used for basic call.			

Structured Type Definition			
Type Name : Information_indicators Encoding Variation : Comments : 3.28 / Q.763 FS : 2.3.3.39 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
CallingPartyAddrResplnd	BIT_2		Calling party address response indicator
HoldProvidedInd	BIT_1		
Spare1	BIT_2		
CallingPartyCatResplnd	BIT_1		Calling party's category response indicator
Reserved1	BIT_1		
SolicitedInfoInd	BIT_1		Solicited information indicator
Spare2	BIT_4		
Reserved2	BIT_4		
Detailed Comments :			

Structured Type Definition			
Type Name : Information_request_indicators Encoding Variation : Comments : 3.29 / Q.763 FS : 2.3.3.40 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
CallingPartyAddrRequestInd	BIT_1		Calling party address request indicator
HoldingInd_or_Spare	BIT_1		
Spare1	BIT_1		
CallingPartyCatRequestInd	BIT_1		Calling party's category request indicator
Reserved1	BIT_1		
Spare2	BIT_2		
MCIDReqInd_or_Spare	BIT_1		
Spare3	BIT_4		
Reserved2	BIT_4		
Detailed Comments :			

Structured Type Definition			
Type Name : Location_number Encoding Variation : Comments : 3.30 / Q.763 FS : 2.3.3.41 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEven	BIT_1		Odd/Even indicator
ScreeningInd	BIT_2		Screening indicator
AddrPresentRestInd	BIT_2		Address presentation restricted indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
INNInd	BIT_1		Internal network number indicator
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Loop_prevention_indicators Encoding Variation : Comments : FS : 2.3.3.42 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
Type	BIT_1		
ResponseInd_or_Spare	BIT_7		
Detailed Comments :			

Structured Type Definition			
Type Name : MCID_request_indicators Encoding Variation : Comments : 3.31 / Q.763 FS : 2.3.3.43 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
MCIDReqInd	BIT_1		MCID request indicator
HoldingInd	BIT_1		Holding indicator
Spare	BIT_6		
Detailed Comments :			

Structured Type Definition			
Type Name : MCID_response_indicators Encoding Variation : Comments : 3.32 / Q.763 FS : 2.3.3.44 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
MCIDResplnd	BIT_1		MCID response indicator
HoldingProvInd	BIT_1		Holding provided indicator
Spare	BIT_6		
Detailed Comments :			

Structured Type Definition			
Type Name : MLPP_precedence Encoding Variation : Comments : 3.34 / Q.763			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
MLPPpre_contents	OCT_6		1.
Detailed Comments : 1. The contents of this parameter are not subdivided becauseInd it is not used for basic call.			

Structured Type Definition			
Type Name : Message_compatibility_information Encoding Variation : Comments : 3.33 / Q.763 FS : 2.3.3.45 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
TransitIntermedExchInd	BIT_1		Transit at intermediate exchange indicator
ReleaseCallInd	BIT_1		Release call indicator
SendNotificationInd	BIT_1		Send notification indicator
DiscardMessageInd	BIT_1		Discard message indicator
PassOnNotPossibleInd	BIT_1		Pass on not possible indicator
Spare1	BIT_2		
ExtInd1	BIT_1		
Spare2	BIT_7		
ExtInd2	BIT_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Meter_pulse_indicator			
Encoding Variation :			
Comments : FS : 2.3.3.46 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
MeterPulse	OCT_1		Meter pulse indicator
Reserved	OCT_1		Reserved optional octet
Detailed Comments : Meter Pulse Indicator ----- 01 to FF Binary representation of the increment to be added to the subscribers accumulator. Octet 1 contains the LSB.			

Structured Type Definition			
Type Name : Nature_of_connection_indicators			
Encoding Variation :			
Comments : 3.35 / Q.763 FS : 2.3.3.47 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
SatelliteInd	BIT_2		Satellite indicator
ContinuityCheckInd	BIT_2		Continuity check indicator
EchoControlDevInd	BIT_1		Echo control device indicator
Spare	BIT_3		
Detailed Comments :			

Structured Type Definition			
Type Name : Network_call_reference			
Encoding Variation :			
Comments : FS : 2.3.3.48 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CallIdentity	OCT_3		Call identity
SwitchId	BIT_14		Switch identity
Spare	BIT_2		
Detailed Comments :			

Structured Type Definition			
Type Name : Network_specific_facility Encoding Variation : Comments : 3.36 / Q.763 FS : 2.3.3.49 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
LenOfNetwld	OCT_N		Length of network identification
NetworkIdPlan	BIT_4		Network identification plan
TypeofNetworkId	BIT_3		Type of network identification
One	BIT_1		
NetworkId	OCT_N		Network identification. The first bit in the octet is Spare, meaning no octet should a value higher than 7F.
NetworkSpecificFacility	OCT_N		Network specific facility
Detailed Comments :			

Structured Type Definition			
Type Name : Optional_backward_call_indicators Encoding Variation : Comments : 3.37 / Q.763 FS : 2.3.3.50 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
InBandInfoInd	BIT_1		In-band information indicator
CallDiversionMayOccurInd	BIT_1		Call diversion may occur indicator
SimpleSegmentationInd	BIT_1		Simple segmentation indicator
Reserved	BIT_3		
TimeSupervBeforeAnsInd	BIT_1		Time supervision before answer indicator
LastPartyRelInd	BIT_1		Last party release indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Optional_forward_call_indicators Encoding Variation : Comments : 3.38 / Q.763 FS : 2.3.3.51 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
CUGCallInd	BIT_2		Closed user group call indicator
SimpleSegmentationInd	BIT_1		Simple segmentation indicator
Spare	BIT_4		
ConnLineReqInd	BIT_1		Connected line identity request indicator
Detailed Comments :			

Structured Type Definition			
Type Name : Original_called_number Encoding Variation : Comments : 3.39 / Q.763 FS : 2.3.3.52 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEven	BIT_1		Odd/even indicator
Spare_1	BIT_2		
AddrPresentRestInd	BIT_2		Address presentation restricted indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
Spare_2	BIT_1		
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Origination_ISC_point_code Encoding Variation : Comments : 3.40 / Q.763 FS : 2.3.3.53 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
OrilSC_contents	OCT_2		1.
Detailed Comments : 1. The contents of this parameter are not subdivided becauseInd it is not used for basic call.			

Structured Type Definition			
Type Name : Parameter_compatibility_information Encoding Variation : Comments : 3.41 / Q.763 FS : 2.3.3.54 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
FirstUpgradParam	BIT_8		Upgraded parameter name
InstructIndFirst	BIT_7		all instruction indicators for parameter 1
ExtInd1	BIT_1		Extension indicator
SecondUpgradParam	BIT_8		
InstructIndSecond	BIT_7		all instruction indicators for parameter 2
ExtInd2	BIT_1		
ThirdUpgradParam	BIT_8		
InstructIndThird	BIT_7		all instruction indicators for parameter 3
ExtInd3	BIT_1		
FourthUpgradParam	BIT_8		
InstructIndFourth	BIT_7		all instruction indicators for parameter 4
ExtInd4	BIT_1		
FifthUpgradParam	BIT_8		
InstructIndFifth	BIT_7		all instruction indicators for parameter 5
ExtInd5	BIT_1		
Detailed Comments : Simplified InstructInd used. This "octet" can be followed by more optional octets.			

Structured Type Definition			
Type Name : Propagation_delay_counter Encoding Variation : Comments : 3.42 / Q.763 FS : 2.3.3.55 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
PropagationDelayValue	OCT_2		Propagation delay value
Detailed Comments :			

Structured Type Definition			
Type Name : Range_and_status Encoding Variation : Comments : 3.43 / Q.763 FS : 2.3.3.56 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
length	OCT_1		
Range	OCT_1		Range
Status	OCT_1_32		Status
Detailed Comments :			

Structured Type Definition			
Type Name : Redirecting_number Encoding Variation : Comments : 3.44 / Q.763 FS : 2.3.3.57 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEven	BIT_1		Odd/even indicator
ScreeningInd	BIT_2		Spare
AddrPresentRestInd	BIT_2		Address presentation restricted indicator
NumberingPlanInd	BIT_3		Numbering plan indicator
Spare	BIT_1		
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Redirection_information Encoding Variation : Comments : 3.45 / Q.763 FS : 2.3.3.58 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
RedirectionInd	BIT_3		Redirecting indicator
Spare1	BIT_1		
OriginalRedirectionReason	BIT_4		Original redirection reason
RedirectionCounter	BIT_3		Redirection counter
Spare2	BIT_1		
RedirectingReason	BIT_4		Redirecting reason
Detailed Comments :			

Structured Type Definition			
Type Name : Redirection_number Encoding Variation : Comments : 3.46 / Q.763 FS : 2.3.3.59 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NatureOfAddrInd	BIT_7		Nature of address indicator
OddEven	BIT_1		Odd/even indicator
Spare	BIT_4		
NumberingPlanInd	BIT_3		Numbering plan indicator
INNInd	BIT_1		Internal network number indicator
AddrSignals	HEX_N		
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Redirection_number_restriction			
Encoding Variation :			
Comments : 3.47 / Q.763 FS : 2.3.3.60 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		Presentation restricted indicator
length	OCT_1		
PresRestInd	BIT_2		
Spare	BIT_6		
Detailed Comments :			

Structured Type Definition			
Type Name : Remote_operations			
Encoding Variation :			
Comments : 3.48 / Q.763			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		1.
length	OCT_1		
RemOp_contents	OCT_N		
Detailed Comments : 1. The contents of this parameter are not subdividedbecauseInd it is for national use only.			

Structured Type Definition			
Type Name : Route_identity			
Encoding Variation :			
Comments : FS : 2.3.3.61 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		Route identity
length	OCT_1		
RouteIdentity	OCT_2		
Detailed Comments :			

Structured Type Definition			
Type Name : SCF_id Encoding Variation : Comments : FS : 2.3.3.62 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type length SCFid	BIT_8 OCT_1 OCT_N		The SCF id information is not interpreted by isup, hence it is transferred tranSparently through isup.
Detailed Comments :			

Structured Type Definition			
Type Name : Service_activation Encoding Variation : Comments : 3.49 / Q.763 FS : 2.3.3.63 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type length ServAct_contents	BIT_8 OCT_1 OCT_N		1.
Detailed Comments : 1. The contents of this parameter are not subdivided becauseInd it is for national use only.			

Structured Type Definition			
Type Name : Signalling_point_code Encoding Variation : Comments : 3.50 / Q.763			
Element Name	Type Definition	Field Encoding	Comments
parameter_type length SPC_contents	BIT_8 OCT_1 OCT_2		1.
Detailed Comments : 1. The contents of this parameter are not subdivided becauseInd it is for national use only.			

Structured Type Definition			
Type Name : Subsequent_number Encoding Variation : Comments : 3.51 / Q.763 FS : 2.3.3.64 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
length	OCT_1		
Spare	BIT_7		
OddEven	BIT_1		Odd/even indicator
AddrSignals	HEX_N		Address signals
Filler	HEX_1		
Detailed Comments :			

Structured Type Definition			
Type Name : Suspend_resume_indicators Encoding Variation : Comments : 3.52 / Q.763 FS : 2.3.3.65 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
SUSRESInd	BIT_1		Suspend/resume indicator
Spare	BIT_7		
Detailed Comments :			

Structured Type Definition			
Type Name : Tariff_indicator Encoding Variation : Comments : FS : 2.3.3.66 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
TariffInd	OCT_1		Tariff indicator
Reserved	OCT_1		Reserved optional octet
Detailed Comments : Tariff Indicator ----- Binary representation of the tariff to be used for charging analysis. Octet 1 contains the LSB.			

Structured Type Definition			
Type Name : Transit_network_selection Encoding Variation : Comments : 3.53 / Q.763 FS : 2.3.3.67 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
NetIdPlan	BIT_4		Network identification plan
TypeOfNetId	BIT_3		Type of network identification plan
OddEvenInd	BIT_1		
NetId	OCT_N		Network identification
Detailed Comments :			

Structured Type Definition			
Type Name : Transmission_medium_requirement Encoding Variation : Comments : 3.55 / Q.763 FS : 2.3.3.69 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
TMR_field	BIT_8		Transmission medium requirement
Detailed Comments :			

Structured Type Definition			
Type Name : Transmission_medium_requirement_prime Encoding Variation : Comments : 3.55 / Q.763 FS : 2.3.3.69 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
TMRp_field	BIT_8		Transmission medium requirement prime
Detailed Comments :			

Structured Type Definition			
Type Name : Transmission_medium_used			
Encoding Variation :			
Comments : 3.56 / Q.763 FS : 2.3.3.70 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
TMU_field	BIT_8		Transmission medium used
Detailed Comments :			

Structured Type Definition			
Type Name : Unknown_parameter			
Encoding Variation :			
Comments :			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
unkn_par_contents	OCT_1		
Detailed Comments :			

Structured Type Definition			
Type Name : User_service_information Encoding Variation : Comments : 3.57 / Q.763 FS : 2.3.3.71 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
InfTrC	BIT_5		Information transfer capability
CodS	BIT_2		Coding standard
Extl_1	BIT_1		Extension indicator
InfTR	BIT_5		Information transfer rate
TrMod	BIT_2		Transfer mode
Extl_2	BIT_1		Extension indicator
RatMul	BIT_7		Rate multiplier
Extl_3	BIT_1		Extension indicator
UInf1	BIT_5		User information layer 1 protocol
Lay1	BIT_2		Layer identification
Extl_4	BIT_1		Extension indicator
UsrRate	BIT_5		User rate
Negot	BIT_1		Negotiation
SynAsyn	BIT_1		Synchronous/Asynchronous
Extl_5	BIT_1		Extension indicator
Spare_1	BIT_1		
FICtrRx	BIT_1		Flow control on Rx
FICtrTx	BIT_1		Flow control on Tx
NICRx	BIT_1		Network independent clock on TX
NICTx	BIT_1		network independent clock on Rx
IntRate	BIT_2		Intermediate rate
Extl_6	BIT_1		Extension indicator
Spare_2	BIT_1		
InBndNeg	BIT_1		In-band/out-band negotiation
Ass	BIT_1		Assignor/assignee
LLINeg	BIT_1		Logical link identifier negotiation
Mode	BIT_1		Mode of operation
MultFr	BIT_1		Multiple frame establishment support in data link
Hdr	BIT_1		Rate adaption header/no header
Extl_7	BIT_1		Extension indicator
PrtY	BIT_3		Parity information
NDatBit	BIT_2		Number of data bits excluding parity bit if present
NStpBit	BIT_2		Number of Stop bits
Extl_8	BIT_1		Extension indicator

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
MdmTyp	BIT_6		Modem type
DupMod	BIT_1		Mode duplex
Extl_9	BIT_1		Extension indicator
UInf2	BIT_5		User information layer 2 protocol
Lay2	BIT_2		Layer identification
Extl_10	BIT_1		Extension indicator
UInf3	BIT_5		User information layer 3 protocol
Lay3	BIT_2		Layer identification
Extl_11	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : User_service_information_prime Encoding Variation : Comments : 3.58 / Q.763 FS : 2.3.3.72 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
InfTrC	BIT_5		Information transfer capability
CodS	BIT_2		Coding standard
Extl_1	BIT_1		Extension indicator
InfTR	BIT_5		Information transfer rate
TrMod	BIT_2		Transfer mode
Extl_2	BIT_1		Extension indicator
RatMul	BIT_7		Rate multiplier
Extl_3	BIT_1		Extension indicator
UInf1	BIT_5		User information layer 1 protocol
Lay1	BIT_2		Layer identification
Extl_4	BIT_1		Extension indicator
UsrRate	BIT_5		User rate
Negot	BIT_1		Negotiation
SynAsyn	BIT_1		Synchronous/Asynchronous
Extl_5	BIT_1		Extension indicator
Spare_1	BIT_1		
FICtrRx	BIT_1		Flow control on Rx
FICtrTx	BIT_1		Flow control on Tx
NICRx	BIT_1		Network independent clock on TX
NICTx	BIT_1		network independent clock on Rx
IntRate	BIT_2		Intermediate rate
Extl_6	BIT_1		Extension indicator
Spare_2	BIT_1		
InBndNeg	BIT_1		In-band/out-band negotiation
Ass	BIT_1		Assignor/assignee
LLINeg	BIT_1		Logical link identifier negotiation
Mode	BIT_1		Mode of operation
MultFr	BIT_1		Multiple frame establishment support in data link
Hdr	BIT_1		Rate adaption header/no header
Extl_7	BIT_1		Extension indicator
PrtY	BIT_3		Parity information
NDatBit	BIT_2		Number of data bits excluding parity bit if present
NStpBit	BIT_2		Number of Stop bits
Extl_8	BIT_1		Extension indicator

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
MdmTyp	BIT_6		Modem type
DupMod	BIT_1		Mode duplex
Extl_9	BIT_1		Extension indicator
UInf2	BIT_5		User information layer 2 protocol
Lay2	BIT_2		Layer identification
Extl_10	BIT_1		Extension indicator
UInf3	BIT_5		User information layer 3 protocol
Lay3	BIT_2		Layer identification
Extl_11	BIT_1		Extension indicator
Detailed Comments :			

Structured Type Definition			
Type Name : User_teleservice_information Encoding Variation : Comments : 3.59 / Q.763 FS : 2.3.3.73 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
Pres	BIT_2		Presentation
Interpr	BIT_3		Interpretation
CodS	BIT_2		Coding standard
Extl_1	BIT_1		Extension indicator
HLChrlnf	BIT_7		High layer characteristics informations
Extl_2	BIT_1		
ExHLChrlnf	BIT_7		Extended high layer characteristics informations
Extl_3	BIT_1		
Detailed Comments :			

Structured Type Definition			
Type Name : User_to_user_indicators Encoding Variation : Comments : 3.60 / Q.763 FS : 2.3.3.74 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
Type	BIT_1		
Service1	BIT_2		Service 1
Service2	BIT_2		Service 2
Service3	BIT_2		Service 3
NetworkDiscardInd	BIT_1		Network discard indicator (Spare if Type = request)
Detailed Comments :			

Structured Type Definition			
Type Name : User_to_user_information Encoding Variation : Comments : 3.61 / Q.763 FS : 2.3.3.75 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Type Definition	Field Encoding	Comments
parameter_type	BIT_8		
length	OCT_1		
UserInfo	OCT_N		User to user information
Detailed Comments :			

Structured Type Definition			
Type Name : BCAP (BEARER CAPABILITY IE) Encoding Variation : Comments : Info Element Bearer CAPability ETS 300 102–1 subclause 4.5.5			
Element Name	Type Definition	Field Encoding	Comments
bcap_i	BITSTRING		Identifier
bcap_l	OCTETSTRING[1]		Length
bcap_con	OCTETSTRING[0..11]		Contents of the bearer capability information element
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CAU (CAUSE IE) Encoding Variation : Comments : Info Element CAUse ETS 300 102-1 subclause 4.5.12			
Element Name	Type Definition	Field Encoding	Comments
cau_i	BITSTRING [8]		Identifier
cau_l	BITSTRING [8]		Length
cau_e3_loc	BITSTRING [8]		Location
cau_e4_rec	BITSTRING [8]		Recommendation
cau_e5_cv1	BITSTRING [1]		Extension bit
cau_e5_cv2	BITSTRING [7]		Cause value
cau_di	OCTETSTRING [1 TO 28]		Diagnostics
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CAU_1 (CAUSE IE) Encoding Variation : Comments : Info Element CAUse ETS 300 102-1 clause 4.5.12			
Element Name	Type Definition	Field Encoding	Comments
cau_i	BITSTRING[8]		Identifier
cau_l	BITSTRING [8]		Length
cau_e3_loc	BITSTRING [8]		Location
cau_e4_cv	CAU_E4_CV		Cause Value OCTETSTRING[1]
cau_di	OCTETSTRING [1 TO 28]		Diagnostics
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : CAU_E4_CV Encoding Variation : Comments : Info Element CAUse Octet 4			
Element Name	Type Definition	Field Encoding	Comments
cau_e4_cv1	BITSTRING [1]		Extension bit
cau_e4_cv2	BITSTRING [7]		Cause value
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : CAU_a (CAUSE IE) Encoding Variation : Comments : Info Element CAUse ETS 300 102-1 clause 4.5.12			
Element Name	Type Definition	Field Encoding	Comments
cau_i	BITSTRING [8]		Identifier
cau_l	BITSTRING [8]		Length
cau_e3_loc	BITSTRING [8]		Location
cau_e4_cv	CAU_E4_CV		Cause Value OCTETSTRING[1]
cau_di	OCTETSTRING [1 TO 28]		Diagnostics
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : CAU_b (CAUSE IE) Encoding Variation : Comments : Info Element CAUse ETS 300 102-1 subclause 4.5.12			
Element Name	Type Definition	Field Encoding	Comments
cau_i	BITSTRING [8]		Identifier
cau_l	BITSTRING [8]		Length
cau_e3_loc	BITSTRING [8]		Location
cau_e4_rec	BITSTRING [8]		Recommendation
cau_e5_cv1	BITSTRING [1]		Extension bit
cau_e5_cv2	BITSTRING [7]		Cause value
cau_di	OCTETSTRING [1 TO 28]		Diagnostics
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CDPN (CALLED PARTY NUMBER IE) Encoding Variation : Comments : Info Element Called Party Number ETS 300 102-1 subclause 4.5.8			
Element Name	Type Definition	Field Encoding	Comments
cdpn_i	BITSTRING [8]		Identifier
cdpn_l	OCTETSTRING [1]		Length
cdpn_e3_npi	OCTETSTRING [1]		Type of number/Numbering plan identifier
cdpn_e4_nd	OCTETSTRING [1 TO 20]		Number digits
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CDPS (CALLED PARTY SUBADDRESS IE)			
Encoding Variation :			
Comments : Info Element CalleD Party Subaddress ETS 300 102-1 clause 4.5.9			
Element Name	Type Definition	Field Encoding	Comments
cdps_i	BITSTRING [8]		Identifier
cdps_l	OCTETSTRING [1]		Length
cdps_e3_tos	BITSTRING [8]		Type of subaddress
cdps_e4_si	OCTETSTRING [1 TO 20]		Subaddress information
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : CGPN (CALLING PARTY NUMBER IE)			
Encoding Variation :			
Comments : Info Element CallinG Party Number ETS 300 102-1 subclause 4.5.10			
Element Name	Type Definition	Field Encoding	Comments
cgpn_i	BITSTRING [8]		Identifier
cgpn_l	OCTETSTRING [1]		Length
cgpn_e3_ton	BITSTRING [4]		Type of number
cgpn_e3_npi	BITSTRING [4]		Numbering plan identifier
cgpn_e4_pi	BITSTRING [3]		Presentation indicator
cgpn_e4_si	BITSTRING [5]		Screening indicator
cgpn_e5_nd	HEXSTRING		Number digits
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CGPS (CALLING PARTY SUBADDRESS IE)			
Encoding Variation :			
Comments : Info Element CallinG Party Subaddress ETS 300 102-1 subclause 4.5.11			
Element Name	Type Definition	Field Encoding	Comments
cgps_i	BITSTRING [8]		Identifier
cgps_l	BITSTRING [8]		Length
cgps_e3_tos	BITSTRING [4]		Type of subaddress
cgps_e3_oei	BITSTRING [1]		Odd/even indicator
cgps_e3_sp	BITSTRING [3]		Spare
cgps_e4_si	OCTETSTRING [1 TO 20]		Subaddress information
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CID (CALLED IDENTITY IE) Encoding Variation : Comments : Info Element Call Identity ETS 300 102-1 clause 4.5.6			
Element Name	Type Definition	Field Encoding	Comments
cid_i	BITSTRING [8]		Identifier
cid_l	BITSTRING [8]		Length
cid_ci	OCTETSTRING [0 TO 8]		Call identity
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : CODN (CONNECTED NUMBER IE) Encoding Variation : Comments : Info Element COnnectedD Number ETS 300 97-1 subclause 7.1			
Element Name	Type Definition	Field Encoding	Comments
codn_i	BITSTRING [8]		Identifier
codn_l	OCTETSTRING [1]		Length
codn_e3_ton	BITSTRING [4]		Type of number
codn_e3_npi	BITSTRING [4]		Numbering plan identifier
codn_e4_pi	BITSTRING [3]		Presentation indicator
codn_e4_si	BITSTRING [5]		Screening indicator
codn_e5_nd	HEXSTRING		Number digits
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CODS (CONNECTED SUBADDRESS IE) Encoding Variation : Comments : Info Element COnnectedD Subaddress ETS 300 97-1 subclause 7.2			
Element Name	Type Definition	Field Encoding	Comments
cods_i	BITSTRING [8]		Identifier
cods_l	OCTETSTRING [1]		Length
cods_e3_tos	BITSTRING [4]		Type of subaddress
cods_e3_oei	BITSTRING [1]		Odd/even indicator
cods_e3_sp	BITSTRING [3]		Spare
cods_e4_si	OCTETSTRING [1 TO 20]		Subaddress information
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : CR (CALL REFERENCE)			
Encoding Variation :			
Comments : Call Reference ETS 300 102-1 subclause 4.3			
Element Name	Type Definition	Field Encoding	Comments
cr_l	BITSTRING [8]		Length
cr_f	BITSTRING [1]		Flag
cr_r	BIT7OR15		Call reference value
Detailed Comments : &COMMON_N10 The call reference is of type BITSTRING[7] for basic access and of type BITSTRING[15] for primary rate access.			

Structured Type Definition			
Type Name : CST (CALL STATE IE)			
Encoding Variation :			
Comments : Info Element Call SState ETS 300 102-1 subclause 4.5.7			
Element Name	Type Definition	Field Encoding	Comments
cst_i	BITSTRING [8]		Identifier
cst_l	BITSTRING [8]		Length
cst_csv1	BITSTRING [2]		Coding standard
cst_csv2	BITSTRING [6]		Call state value/global interface state value
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : DATI (DATE/TIME IE)			
Encoding Variation :			
Comments : Info Element DAtE/TIme ETS 300 102-1 clause 4.6.1			
Element Name	Type Definition	Field Encoding	Comments
dati_i	BITSTRING [8]		Identifier
dati_l	BITSTRING [8]		Length
dati_dt	OCTETSTRING [0 TO 5]		Date/time value
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : HLC (HIGH LAYER COMPATIBILITY IE)			
Encoding Variation :			
Comments : Info Element High Layer Compatibility ETS 300 102-1 subclause 4.5.16			
Element Name	Type Definition	Field Encoding	Comments
hlc_i	BITSTRING [8]		Identifier
hlc_l	OCTETSTRING[1]		Length
hlc_con	OCTETSTRING[0..3]		Contents of the high layer compatibility information element
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : KPF (KEYPAD FACILITY IE)			
Encoding Variation :			
Comments : Info Element KeyPad Facility ETS 300 102-1 subclause 4.5.17			
Element Name	Type Definition	Field Encoding	Comments
kpf_i	BITSTRING [8]		Identifier
kpf_l	BITSTRING [8]		Length
kpf_ki	OCTETSTRING [0 TO 32]		Keypad information
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : LLC (LOW LAYER COMPATIBILITY IE)			
Encoding Variation :			
Comments : Info Element Low Layer Compatibility ETS 300 102-1 subclause 4.5.18			
Element Name	Type Definition	Field Encoding	Comments
llc_i	BITSTRING [8]		Identifier
llc_l	OCTETSTRING[1]		Length
llc_con	OCTETSTRING[0..14]		Contents of the low layer compatibility information element
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : NOID (NOTIFICATION INDICATOR IE)			
Encoding Variation :			
Comments : Info Element NOtification InDicator ETS 300 102-1 subclause 4.5.21			
Element Name	Type Definition	Field Encoding	Comments
noid_i	BITSTRING [8]		Identifier
noid_l	BITSTRING [8]		Length
noid_e3_nd	OCTETSTRING [1]		Notification description
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : NSF (NETWORK-SPECIFIC FACILITIES IE)			
Encoding Variation :			
Comments : Info Element Network-Specific Facilities ETS 300 102-1 clause 4.5.20			
Element Name	Type Definition	Field Encoding	Comments
nsf_i	BITSTRING [8]		Identifier
nsf_l	BITSTRING [8]		Length
nsf_lni	BITSTRING [8]		Length of network identification
nsf_toni	BITSTRING [4]		Type of network identification
nsf_nip	BITSTRING [4]		Network identification plan
nsf_ni	OCTETSTRING		Network identification
nsf_nsfs	OCTETSTRING		Network-specific facility specification
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : NSF_a (NETWORK-SPECIFIC FACILITIES IE) Encoding Variation : Comments : Info Element Network-Specific Facilities ETS 300 102-1 clause 4.5.20			
Element Name	Type Definition	Field Encoding	Comments
nsf_i	BITSTRING [8]		Identifier
nsf_l	BITSTRING [8]		Length
nsf_lni	BITSTRING [8]		Length of network identification
nsf_toni	BITSTRING [4]		Type of network identification
nsf_nip	BITSTRING [4]		Network identification plan
nsf_ni	OCTETSTRING		Network identification
nsf_nsfs	OCTETSTRING		Network-specific facility specification
Detailed Comments : &COMMON_N09			

Structured Type Definition			
Type Name : NSF_b (NETWORK-SPECIFIC FACILITIES IE) Encoding Variation : Comments : Info Element Network-Specific Facilities ETS 300 102-1 subclause 4.5.20			
Element Name	Type Definition	Field Encoding	Comments
nsf_i	BITSTRING [8]		Identifier
nsf_l	BITSTRING [8]		Length
nsf_lni	BITSTRING [8]		Length of network identification
nsf_toni	BITSTRING [4]		Type of network identification
nsf_nip	BITSTRING [4]		Network identification plan
nsf_ni	OCTETSTRING[0..250]		Network identification
nsf_nsfs	OCTETSTRING[0..250]		Network-specific facility specification
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : PI (PROGRESS INDICATOR IE)			
Encoding Variation :			
Comments : Info Element Progress Indicator ETS 300 102-1 subclause 4.5.22			
Element Name	Type Definition	Field Encoding	Comments
pi_i	BITSTRING [8]		Identifier
pi_l	BITSTRING [8]		Length
pi_e3_loc	BITSTRING [8]		Location
pi_e4_pd	BITSTRING [8]		Progress description
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : RI (RESTART INDICATOR IE)			
Encoding Variation :			
Comments : Info Element Restart Indicator ETS 300 102-1 subclause 4.5.24			
Element Name	Type Definition	Field Encoding	Comments
ri_i	BITSTRING [8]		Identifier
ri_l	BITSTRING [8]		Length
ri_cl	BITSTRING [5]		Fixed value '10000'B
ri_cl1	BITSTRING [3]		Class
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : RNGN (REDIRECTING NUMBER IE)			
Encoding Variation :			
Comments : Info Element RedirectiNG Number ETS 300 207 subclause 7.2.2			
Element Name	Type Definition	Field Encoding	Comments
rngn_i	BITSTRING [8]		Identifier
rngn_l	OCTETSTRING [1]		Length
rngn_e3_ton	BITSTRING [4]		Type of number
rngn_e3_npi	BITSTRING [4]		Numbering plan identifier
rngn_e4_pi	BITSTRING [3]		Presentation indicator
rngn_e4_sp	BITSTRING [5]		Spare
rngn_e5_sp	BITSTRING [4]		Spare
rngn_e5_rfd	BITSTRING [4]		Reason for diversion
rngn_e6_nd	OCTETSTRING [1 TO 20]		Number digits
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : RONN (REDIRECTION NUMBER IE)			
Encoding Variation :			
Comments : Info Element Redirection Number ETS 300 207-1 subclause 7.2.3			
Element Name	Type Definition	Field Encoding	Comments
ronn_i	BITSTRING [8]		Identifier
ronn_l	OCTETSTRING [1]		Length
ronn_e3_ton	BITSTRING [4]		Type of number
ronn_e3_npi	BITSTRING [4]		Numbering plan identifier
ronn_e4_pi	BITSTRING [3]		Presentation indicator
ronn_e4_sp	BITSTRING [5]		Spare
ronn_e5_nd	HEX_N		Number digits
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : TNS (TRANSIT NETWORK SELECTION IE)			
Encoding Variation :			
Comments : Info Element Transit Network Selection ETS 300 102-1 subclause 4.5.28			
Element Name	Type Definition	Field Encoding	Comments
tns_i	BITSTRING [8]		Identifier
tns_l	BITSTRING [8]		Length
tns_toni	BITSTRING [4]		Type of network identification
tns_nip	BITSTRING [4]		Network identification plan
tns_ni	OCTETSTRING [0 TO 251]		Network identification
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : UUI (USER USER INFORMATION IE)			
Encoding Variation :			
Comments : Info Element User-User ETS 300 102-1 subclause 4.5.29			
Element Name	Type Definition	Field Encoding	Comments
uui_i	BITSTRING [8]		Identifier
uui_l	BITSTRING [8]		Length
uui_pd	BITSTRING [8]		Protocol discriminator
uui_uic	OCTETSTRING [0 TO 128]		User information
Detailed Comments : &COMMON_N10			

Structured Type Definition			
Type Name : information_type Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
information	HEX_N		
Detailed Comments :			

Structured Type Definition			
Type Name : cic_type Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
CIC	circuitIC_type		
Detailed Comments :			

Structured Type Definition			
Type Name : DSP (DISPLAY IE) Encoding Variation : Comments : Info Element DiSPlay ETS 300 102-1 subclause 4.5.15			
Element Name	Type Definition	Field Encoding	Comments
dsp_i	BITSTRING [8]		Identifier
dsp_l	BITSTRING [8]		Length
dsp_di	OCTETSTRING [0 TO 32]		Display information
Detailed Comments : &COMMON_N10			

ASN.1 Type Definition	
Type Name	: ActivationDiversiion_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { activationDiversiion_InvokeComp [1] IMPLICIT ActivationDiversiion_InvokeComponent, activationDiversiion_ReturnResultComp [2] IMPLICIT ActivationDiversiion_ReturnResultComponent, activationDiversiion_ReturnErrorComp [3] IMPLICIT ActivationDiversiion_ReturnErrorComponent, activationDiversiion_RejectComp [4] IMPLICIT RejectComponent } -- This is the ActivationDiversiion InvokeComponent -- ActivationDiversiion_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the ActivationDiversiion ReturnResultComponent -- ActivationDiversiion_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result field with this return result comp -- This is the ActivationDiversiion ReturnErrorComponent -- ActivationDiversiion_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { procedure Procedure, basicService BasicService, forwardedToAddress Address, servedUserNr ServedUserNr } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ActivationStatusNotificationDiv_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { activationStatusNotificationDiv_InvokeComp [1] IMPLICIT ActivationStatusNotificationDiv_InvokeComponent, activationStatusNotificationDiv_ReturnResultComp [2] IMPLICIT ActivationStatusNotificationDiv_ReturnResultComponent, activationStatusNotificationDiv_ReturnErrorComp [3] IMPLICIT ActivationStatusNotificationDiv_ReturnErrorComponent, activationStatusNotificationDiv_RejectComp [4] IMPLICIT RejectComponent } -- This is the ActivationStatusNotificationDiv InvokeComponent -- ActivationStatusNotificationDiv_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the ActivationStatusNotificationDiv ReturnResultComponent -- ActivationStatusNotificationDiv_ReturnResultComponent ::= NULL -- This is the ActivationStatusNotificationDiv ReturnErrorComponent -- ActivationStatusNotificationDiv_ReturnErrorComponent ::= NULL -- Common (local) type elements -- Argument ::= SEQUENCE { procedure Procedure, basicService BasicService, forwardedToAddress Address, servedUserNr ServedUserNr } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: AddCONF_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { addCONF_InvokeComp [1] IMPLICIT AddCONF_InvokeComponent, addCONF_ReturnResultComp [2] IMPLICIT AddCONF_ReturnResultComponent, addCONF_ReturnErrorComp [3] IMPLICIT AddCONF_ReturnErrorComponent, addCONF_RejectComp [4] IMPLICIT RejectComponent } -- This is the AddCONF InvokeComponent -- AddCONF_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" not used in SSs operation_value Operation, argument Argument OPTIONAL } -- This is the AddCONF ReturnResultComponent -- AddCONF_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the AddCONF ReturnErrorComponent -- AddCONF_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= Conferenceld Result ::= Partyld </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Address
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { partyNumber PartyNumber, partySubaddress PartySubaddress OPTIONAL} </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: AddressScreened
Encoding Variation	:
Comments	:
Type Definition	
SEQUENCE { partyNumber PartyNumber, screeningIndicator ScreeningIndicator, partySubaddress PartySubaddress OPTIONAL}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: BIT7OR15
Encoding Variation	:
Comments	: A BIT STRING type being of length 7 or 15 used to store the call reference value.
Type Definition	
BIT STRING (SIZE(7..15))	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: BIT7OR8
Encoding Variation	:
Comments	: A BIT STRING of size 7 or 8 used for test case variables.
Type Definition	
BIT STRING(SIZE(7..8))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: BasicService
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { allServices (0), speech (1), unrestrictedDigitalInformation (2), audio3k1Hz (3), unrestrictedDigitalInformationWithTonesAndAnnouncements (4), telephony3k1Hz (32), teletex (33), telefaxGroup4Class1 (34), videotexSyntaxBased (35), videotelephony (36), telefaxGroup2_3 (37), telephony7kHz (38)} </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: BeginCONF_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { beginCONF_InvokeComp [1] IMPLICIT BeginCONF_InvokeComponent, beginCONF_ReturnResultComp [2] IMPLICIT BeginCONF_ReturnResultComponent, beginCONF_ReturnErrorComp [3] IMPLICIT BeginCONF_ReturnErrorComponent, beginCONF_RejectComp [4] IMPLICIT RejectComponent } -- This is the BeginCONF InvokeComponent -- BeginCONF_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in supplementary services operation_value Operation, argument Argument OPTIONAL } -- This is the BeginCONF ReturnResultComponent -- BeginCONF_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the BeginCONF ReturnErrorComponent -- BeginCONF_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= ConfSize -- optional (check) Result ::= SEQUENCE { conferenceId ConferenceId, partyId PartyId OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: BeginPTY3_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { beginPTY3_InvokeComp [1] IMPLICIT BeginPTY3_InvokeComponent, beginPTY3_ReturnResultComp [2] IMPLICIT BeginPTY3_ReturnResultComponent, beginPTY3_ReturnErrorComp [3] IMPLICIT BeginPTY3_ReturnErrorComponent, beginPTY3_RejectComp [4] IMPLICIT RejectComponent } -- This is the BeginPTY3 InvokeComponent -- BeginPTY3_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in supplementary services operation_value Operation } -- This is the BeginPTY3 ReturnResultComponent -- BeginPTY3_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result argument here -- This is the BeginPTY3 ReturnErrorComponent -- BeginPTY3_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSBFree_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSBFree_InvokeComp [1] IMPLICIT CCBSBFree_InvokeComponent, cCBSBFree_ReturnResultComp [2] IMPLICIT CCBSBFree_ReturnResultComponent, cCBSBFree_ReturnErrorComp [3] IMPLICIT CCBSBFree_ReturnErrorComponent, cCBSBFree_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSBFree InvokeComponent -- CCBSBFree_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSBFree ReturnResultComponent -- CCBSBFree_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBSBFree ReturnErrorComponent -- CCBSBFree_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= SEQUENCE { recallMode RecallMode, cCBSReference CCBSReference, addressOfB Address, q931InfoElement Q931InformationElement -- BCAP/HLC/LLC embedded } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSCall_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { cCBSCall_InvokeComp [1] IMPLICIT CCBSCall_InvokeComponent, cCBSCall_ReturnResultComp [2] IMPLICIT CCBSCall_ReturnResultComponent, cCBSCall_ReturnErrorComp [3] IMPLICIT CCBSCall_ReturnErrorComponent, cCBSCall_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSCall InvokeComponent -- CCBSCall_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSCall ReturnResultComponent -- CCBSCall_ReturnResultComponent ::= NULL -- This is the CCBSCall ReturnErrorComponent -- CCBSCall_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= CCBSCallReference</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSDeactivate_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSDeactivate_InvokeComp [1] IMPLICIT CCBSDeactivate_InvokeComponent, cCBSDeactivate_ReturnResultComp [2] IMPLICIT CCBSDeactivate_ReturnResultComponent, cCBSDeactivate_ReturnErrorComp [3] IMPLICIT CCBSDeactivate_ReturnErrorComponent, cCBSDeactivate_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSDeactivate InvokeComponent -- CCBSDeactivate_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSDeactivate ReturnResultComponent -- CCBSDeactivate_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation } OPTIONAL } -- This is the CCBSDeactivate ReturnErrorComponent -- CCBSDeactivate_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= CCBSReference </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSEraseReason
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { normal_unspecified (0), t_CCBS2_timeout (1), t_CCBS3_timeout (2), basic_call_failed (3) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSErase_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSErase_InvokeComp [1] IMPLICIT CCBSErase_InvokeComponent, cCBSErase_ReturnResultComp [2] IMPLICIT CCBSErase_ReturnResultComponent, cCBSErase_ReturnErrorComp [3] IMPLICIT CCBSErase_ReturnErrorComponent, cCBSErase_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSErase InvokeComponent -- CCBSErase_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSErase ReturnResultComponent -- CCBSErase_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBSErase ReturnErrorComponent -- CCBSErase_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= SEQUENCE { recallMode RecallMode, cCBSReference CCBSReference, addressOfB Address, q931InfoElement Q931InformationElement, -- BCAP/HLC/LLC embedded eraseReason CCBSEraseReason } -- CCBSEraseReason ::= ENUMERATED { normal_unspecified (0), -- t_CCBS2_timeout (1), -- t_CCBS3_timeout (2), -- basic_call_failed (3) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSInterrogate_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSInterrogate_InvokeComp [1] IMPLICIT CCBSInterrogate_InvokeComponent, cCBSInterrogate_ReturnResultComp [2] IMPLICIT CCBSInterrogate_ReturnResultComponent, cCBSInterrogate_ReturnErrorComp [3] IMPLICIT CCBSInterrogate_ReturnErrorComponent, cCBSInterrogate_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSInterrogate InvokeComponent -- CCBSInterrogate_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSInterrogate ReturnResultComponent -- CCBSInterrogate_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the CCBSInterrogate ReturnErrorComponent -- CCBSInterrogate_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { cCBSReference CCBSReference OPTIONAL, partyNumberOfA PartyNumber OPTIONAL} Result ::= SEQUENCE { recallMode RecallMode, callDetails CallDetails OPTIONAL} CallDetails ::= SEQUENCE OF CallInformation (SIZE(1..5)) </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSReference
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0..128)	
Detailed Comments	: Values allowed: 0-127. Value 128 indicate that no CCBS reference is in use.

ASN.1 Type Definition	
Type Name	: CCBSRemoteUserFree_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSRemoteUserFree_InvokeComp [1] IMPLICIT CCBSRemoteUserFree_InvokeComponent, cCBSRemoteUserFree_ReturnResultComp [2] IMPLICIT CCBSRemoteUserFree_ReturnResultComponent, cCBSRemoteUserFree_ReturnErrorComp [3] IMPLICIT CCBSRemoteUserFree_ReturnErrorComponent, cCBSRemoteUserFree_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSRemoteUserFree InvokeComponent -- CCBSRemoteUserFree_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSRemoteUserFree ReturnResultComponent -- CCBSRemoteUserFree_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBSRemoteUserFree ReturnErrorComponent -- CCBSRemoteUserFree_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= SEQUENCE { recallMode RecallMode, cCBSReference CCBSReference, addressOfB Address, q931InfoElement Q931InformationElement -- BCAP/HLC/LLC embedded } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSStatusRequest_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSStatusRequest_InvokeComp [1] IMPLICIT CCBSStatusRequest_InvokeComponent, cCBSStatusRequest_ReturnResultComp [2] IMPLICIT CCBSStatusRequest_ReturnResultComponent, cCBSStatusRequest_ReturnErrorComp [3] IMPLICIT CCBSStatusRequest_ReturnErrorComponent, cCBSStatusRequest_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSStatusRequest InvokeComponent -- CCBSStatusRequest_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSStatusRequest ReturnResultComponent -- CCBSStatusRequest_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the CCBSStatusRequest ReturnErrorComponent -- CCBSStatusRequest_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= SEQUENCE { recallMode RecallMode, cCBSReference CCBSSReference, q931InfoElement Q931InformationElement -- BCAP/HLC/LLC embedded } Result ::= BOOLEAN -- {free(TRUE), busy(FALSE)} – check this </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBSSStopAlerting_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSStopAlerting_InvokeComp [1] IMPLICIT CCBSSStopAlerting_InvokeComponent, cCBSStopAlerting_ReturnResultComp [2] IMPLICIT CCBSSStopAlerting_ReturnResultComponent, cCBSStopAlerting_ReturnErrorComp [3] IMPLICIT CCBSSStopAlerting_ReturnErrorComponent, cCBSStopAlerting_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSSStopAlerting InvokeComponent -- CCBSSStopAlerting_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSSStopAlerting ReturnResultComponent -- CCBSSStopAlerting_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBSSStopAlerting ReturnErrorComponent -- CCBSSStopAlerting_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= CCBSSReference </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBS_T_Available_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBS_T_Available_InvokeComp [1] IMPLICIT CCBS_T_Available_InvokeComponent, cCBS_T_Available_ReturnResultComp [2] IMPLICIT CCBS_T_Available_ReturnResultComponent, cCBS_T_Available_ReturnErrorComp [3] IMPLICIT CCBS_T_Available_ReturnErrorComponent, cCBS_T_Available_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBS_T_Available InvokeComponent -- CCBS_T_Available_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument specified -- This is the CCBS_T_Available ReturnResultComponent -- CCBS_T_Available_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBS_T_Available ReturnErrorComponent -- CCBS_T_Available_ReturnErrorComponent ::= NULL -- no ERROR specified -- No Common (local) type elements -- </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBS_T_Call_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBS_T_Call_InvokeComp [1] IMPLICIT CCBS_T_Call_InvokeComponent, cCBS_T_Call_ReturnResultComp [2] IMPLICIT CCBS_T_Call_ReturnResultComponent, cCBS_T_Call_ReturnErrorComp [3] IMPLICIT CCBS_T_Call_ReturnErrorComponent, cCBS_T_Call_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBS_T_Call InvokeComponent -- CCBS_T_Call_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument specified -- This is the CCBS_T_Call ReturnResultComponent -- CCBS_T_Call_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBS_T_Call ReturnErrorComponent -- CCBS_T_Call_ReturnErrorComponent ::= NULL -- no ERROR specified -- No Common (local) type elements -- </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBS_T_RemoteUserFree_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBS_T_RemoteUserFree_InvokeComp [1] IMPLICIT CCBS_T_RemoteUserFree_InvokeComponent, cCBS_T_RemoteUserFree_ReturnResultComp [2] IMPLICIT CCBS_T_RemoteUserFree_ReturnResultComponent, cCBS_T_RemoteUserFree_ReturnErrorComp [3] IMPLICIT CCBS_T_RemoteUserFree_ReturnErrorComponent, cCBS_T_RemoteUserFree_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBS_T_RemoteUserFree InvokeComponent -- CCBS_T_RemoteUserFree_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument specified -- This is the CCBS_T_RemoteUserFree ReturnResultComponent -- CCBS_T_RemoteUserFree_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBS_T_RemoteUserFree ReturnErrorComponent -- CCBS_T_RemoteUserFree_ReturnErrorComponent ::= NULL -- no ERROR specified -- No Common (local) type elements -- </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBS_T_Request_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBS_T_Request_InvokeComp [1] IMPLICIT CCBS_T_Request_InvokeComponent, cCBS_T_Request_ReturnResultComp [2] IMPLICIT CCBS_T_Request_ReturnResultComponent, cCBS_T_Request_ReturnErrorComp [3] IMPLICIT CCBS_T_Request_ReturnErrorComponent, cCBS_T_Request_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBS_T_Request InvokeComponent -- CCBS_T_Request_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBS_T_Request ReturnResultComponent -- CCBS_T_Request_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the CCBS_T_Request ReturnErrorComponent -- CCBS_T_Request_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { destinationAddress Address, q931InfoElement Q931InformationElement, -- BCAP/HLC/LLC embedded retentionSupported [1] IMPLICIT BOOLEAN DEFAULT FALSE, presentationAllowedIndicator [2] IMPLICIT BOOLEAN OPTIONAL, originatingAddress Address OPTIONAL -- last two items are required for prETS 300 195 -- interaction with CLIP } Result ::= retentionSupported retentionSupported ::= BOOLEAN -- DEFAULT FALSE -- check this </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBS_T_Resume_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBS_T_Resume_InvokeComp [1] IMPLICIT CCBS_T_Resume_InvokeComponent, cCBS_T_Resume_ReturnResultComp [2] IMPLICIT CCBS_T_Resume_ReturnResultComponent, cCBS_T_Resume_ReturnErrorComp [3] IMPLICIT CCBS_T_Resume_ReturnErrorComponent, cCBS_T_Resume_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBS_T_Resume InvokeComponent -- CCBS_T_Resume_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument specified -- This is the CCBS_T_Resume ReturnResultComponent -- CCBS_T_Resume_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBS_T_Resume ReturnErrorComponent -- CCBS_T_Resume_ReturnErrorComponent ::= NULL -- no ERROR specified -- No Common (local) type elements -- </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CCBS_T_Suspend_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBS_T_Suspend_InvokeComp [1] IMPLICIT CCBS_T_Suspend_InvokeComponent, cCBS_T_Suspend_ReturnResultComp [2] IMPLICIT CCBS_T_Suspend_ReturnResultComponent, cCBS_T_Suspend_ReturnErrorComp [3] IMPLICIT CCBS_T_Suspend_ReturnErrorComponent, cCBS_T_Suspend_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBS_T_Suspend InvokeComponent -- CCBS_T_Suspend_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument specified -- This is the CCBS_T_Suspend ReturnResultComponent -- CCBS_T_Suspend_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CCBS_T_Suspend ReturnErrorComponent -- CCBS_T_Suspend_ReturnErrorComponent ::= NULL -- no ERROR specified -- No Common (local) type elements -- </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CHI
Encoding Variation	:
Comments	: Info Element CHannel Identification ETS 300 102-1 clause 4.5.13
Type Definition	
<pre> CHOICE { basic BASIC_CHI, primary PRIMARY_CHI } -- Local Type Definitions -- BASIC_CHI ::= SEQUENCE { chi_i CHI_I, -- Identifier chi_l BIT STRING (SIZE(8)), -- Length chi_e3_cs BIT STRING (SIZE(8)) -- Cannel selection } PRIMARY_CHI ::= SEQUENCE { chi_i CHI_I, -- Identifier chi_l BIT STRING (SIZE(8)), -- Length chi_e3_p1 BIT STRING (SIZE(4)), -- First nibble of Channel selection chi_e3_pe BIT STRING (SIZE(1)), -- Preferred/Exclusive Bit chi_e3_p3 BIT STRING (SIZE(3)), -- Last three bit of Channel selection chi_e4 BIT STRING (SIZE(8)), -- Channel type chi_e5_ch1 BIT STRING (SIZE(1)), chi_e5_ch2 BIT STRING (SIZE(7)) -- Channel number } </pre>	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: CHI_I
Encoding Variation	:
Comments	: Identifier for the Channel identification information element.
Type Definition	
BIT STRING('00011000'B)	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: CUGCall_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cUGCall_InvokeComp [1] IMPLICIT CUGCall_InvokeComponent, cUGCall_ReturnResultComp [2] IMPLICIT CUGCall_ReturnResultComponent, cUGCall_ReturnErrorComp [3] IMPLICIT CUGCall_ReturnErrorComponent, cUGCall_RejectComp [4] IMPLICIT RejectComponent } -- This is the CUGCall InvokeComponent -- CUGCall_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, operation_value Operation, -- value for CUGCall is (2) argument ARGUMENT OPTIONAL } -- This is the CUGCall ReturnResultComponent -- CUGCall_ReturnResultComponent ::= NULL -- no such component for CUGCall -- This is the CUGCall ReturnErrorComponent -- CUGCall_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error CUG_Error } CUG_Error ::= Error ARGUMENT ::= SEQUENCE { oARequested OARequested , cUGIndex CUGIndex OPTIONAL } OARequested ::= [1] IMPLICIT BOOLEAN CUGIndex ::= [2] IMPLICIT INTEGER (0 .. 32767) </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallDeflection_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { callDeflection_InvokeComp [1] IMPLICIT CallDeflection_InvokeComponent, callDeflection_ReturnResultComp [2] IMPLICIT CallDeflection_ReturnResultComponent, callDeflection_ReturnErrorComp [3] IMPLICIT CallDeflection_ReturnErrorComponent, callDeflection_RejectComp [4] IMPLICIT RejectComponent } -- This is the CallDeflection InvokeComponent -- CallDeflection_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument } -- This is the CallDeflection ReturnResultComponent -- CallDeflection_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result field with this return result comp -- This is the CallDeflection ReturnErrorComponent -- CallDeflection_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { deflectionAddress Address, presentationAllowedDivertedToUser PresentationAllowedIndicator } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallInfoRetain_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { callInfoRetain_InvokeComp [1] IMPLICIT CallInfoRetain_InvokeComponent, callInfoRetain_ReturnResultComp [2] IMPLICIT CallInfoRetain_ReturnResultComponent, callInfoRetain_ReturnErrorComp [3] IMPLICIT CallInfoRetain_ReturnErrorComponent, callInfoRetain_RejectComp [4] IMPLICIT RejectComponent } -- This is the CallInfoRetain InvokeComponent -- CallInfoRetain_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CallInfoRetain ReturnResultComponent -- CallInfoRetain_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the CallInfoRetain ReturnErrorComponent -- CallInfoRetain_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= CallLinkageID </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallInformation
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { addressOfB Address, q931InfoElement Q931InformationElement, -- BCAP/HLC/LLC embedded cCBSReference CCBSReference, subAddressOfA PartySubaddress OPTIONAL} </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallLinkIDType
Encoding Variation	:
Comments	:
Type Definition	
<pre> INTEGER (0 .. 127) </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallLinkageID
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0..127)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallRerouteing_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { callRerouteing_InvokeComp [1] IMPLICIT CallRerouteing_InvokeComponent, callRerouteing_ReturnResultComp [2] IMPLICIT CallRerouteing_ReturnResultComponent, callRerouteing_ReturnErrorComp [3] IMPLICIT CallRerouteing_ReturnErrorComponent, callRerouteing_RejectComp [4] IMPLICIT RejectComponent } -- This is the CallRerouteing InvokeComponent -- CallRerouteing_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CallRerouteing ReturnResultComponent -- CallRerouteing_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result field with this return result comp -- This is the CallRerouteing ReturnErrorComponent -- CallRerouteing_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { rerouteingReason DiversionReason, calledAddress Address, rerouteingCounter DiversionCounter, q931InfoElement Q931InformationElement, lastRerouteingNr [1] PresentedNumberUnscreened, subscriptionOption [2] IMPLICIT SubscriptionOption DEFAULT noNotification, callingPartySubaddress [3] PartySubaddress OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Cause
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { signallingNetworkCongested SEQUENCE { level INTEGER OPTIONAL }, userPartUnavailabilityUnknown NULL, userPartUnavailabilityUnequippedRemoteUser NULL, userPartUnavailabilityInaccessibleRemoteUser NULL }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Component
Encoding Variation	:
Comments	: ASN1_Encoding: BER The collection of all possible components for CONF ss
Type Definition	
<pre> CHOICE { beginPTY3_Components BeginPTY3_Components , endPTY3_Components EndPTY3_Components , callInfoRetain_Components CallInfoRetain_Components, eraseCallLinkageID_Components EraseCallLinkageID_Components, cCBSRequest_Components CCBSRequest_Components, cCBSInterrogate_Components CCBSInterrogate_Components, cCBSDeactivate_Components CCBSDeactivate_Components, cCBSErase_Components CCBSErase_Components, cCBSRemoteUserFree_Components CCBSRemoteUserFree_Components, cCBSBFree_Components CCBSBFree_Components, cCBSCall_Components CCBSCall_Components, cCBSStatusRequest_Components CCBSStatusRequest_Components, statusRequest_Components StatusRequest_Components, cCBSStopAlerting_Components CCBSStopAlerting_Components, cCBS_T_Call_Components CCBS_T_Call_Components, cCBS_T_Suspend_Components CCBS_T_Suspend_Components, cCBS_T_Request_Components CCBS_T_Request_Components, cCBS_T_Resume_Components CCBS_T_Resume_Components, cCBS_T_RemoteUserFree_Components CCBS_T_RemoteUserFree_Components, cCBS_T_Available_Components CCBS_T_Available_Components, invalidCCBSInterrogate_Components InvalidCCBSInterrogate_Components, activationDiversion_Components ActivationDiversion_Components, deactivationDiversion_Components DeactivationDiversion_Components, activationStatusNotificationDiv_Components ActivationStatusNotificationDiv_Components, deactivationStatusNotificationDiv_Components DeactivationStatusNotificationDiv_Components, interrogationDiversion_Components InterrogationDiversion_Components, interrogateServedUserNumbers_Components InterrogateServedUserNumbers_Components, diversionInformation_Components DiversionInformation_Components, callDeflection_Components CallDeflection_Components, callRerouteing_Components CallRerouteing_Components, divertingLegInformation1_Components DivertingLegInformation1_Components, divertingLegInformation2_Components DivertingLegInformation2_Components, divertingLegInformation3_Components DivertingLegInformation3_Components, cUGCall_Components CUGCall_Components, ectExecute_Components EctExecute_Components , ectInform_Components EctInform_Components , ectLinkIdRequest_Components EctLinkIdRequest_Components , ectLoopTest_Components EctLoopTest_Components , explicitEctExecute_Components ExplicitEctExecute_Components , requestSubaddress_Components RequestSubaddress_Components , subaddressTransfer_Components SubaddressTransfer_Components , mCIDRequest_Components MCIDRequest_Components, beginCONF_Components BeginCONF_Components , addCONF_Components AddCONF_Components , splitCONF_Components SplitCONF_Components , dropCONF_Components DropCONF_Components , isolateCONF_Components IsolateCONF_Components , reattachCONF_Components ReattachCONF_Components , partyDISC_Components PartyDISC_Components , userUserService_Components UserUserService_Components , general_Components General_Components -- required to cope with the receipt of -- "other" components which are ignored. } </pre>	
Detailed Comments	: plural (componentS) as each type represents invoke, return result, return error etc.

ASN.1 Type Definition	
Type Name	: Components
Encoding Variation	:
Comments	:
Type Definition	
SET OF Component	
Detailed Comments	: &COMMON_N09

ASN.1 Type Definition	
Type Name	: ConfSize
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0 .. 127)	
Detailed Comments	: see ETS 300 185 p11

ASN.1 Type Definition	
Type Name	: Conferenceld
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0 .. 127)	
Detailed Comments	: see ETS 300 185 p11

ASN.1 Type Definition	
Type Name	: DeactivationDiversiion_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { deactivationDiversiion_InvokeComp [1] IMPLICIT DeactivationDiversiion_InvokeComponent, deactivationDiversiion_ReturnResultComp [2] IMPLICIT DeactivationDiversiion_ReturnResultComponent, deactivationDiversiion_ReturnErrorComp [3] IMPLICIT DeactivationDiversiion_ReturnErrorComponent, deactivationDiversiion_RejectComp [4] IMPLICIT RejectComponent } -- This is the DeactivationDiversiion InvokeComponent -- DeactivationDiversiion_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the DeactivationDiversiion ReturnResultComponent -- DeactivationDiversiion_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result field with this return result comp -- This is the DeactivationDiversiion ReturnErrorComponent -- DeactivationDiversiion_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { procedure Procedure, basicService BasicService, servedUserNr ServedUserNr }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DeactivationStatusNotificationDiv_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { deactivationStatusNotificationDiv_InvokeComp [1] IMPLICIT DeactivationStatusNotificationDiv_InvokeComponent, deactivationStatusNotificationDiv_ReturnResultComp [2] IMPLICIT DeactivationStatusNotificationDiv_ReturnResultComponent, deactivationStatusNotificationDiv_ReturnErrorComp [3] IMPLICIT DeactivationStatusNotificationDiv_ReturnErrorComponent, deactivationStatusNotificationDiv_RejectComp [4] IMPLICIT RejectComponent } -- This is the DeactivationStatusNotificationDiv InvokeComponent -- DeactivationStatusNotificationDiv_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the DeactivationStatusNotificationDiv ReturnResultComponent -- DeactivationStatusNotificationDiv_ReturnResultComponent ::= NULL -- This is the DeactivationStatusNotificationDiv ReturnErrorComponent -- DeactivationStatusNotificationDiv_ReturnErrorComponent ::= NULL -- Common (local) type elements -- Argument ::= SEQUENCE { procedure Procedure, basicService BasicService, servedUserNr ServedUserNr }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DiversionCounter
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (1..5)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DiversionInformation_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { diversionInformation_InvokeComp [1] IMPLICIT DiversionInformation_InvokeComponent, diversionInformation_ReturnResultComp [2] IMPLICIT DiversionInformation_ReturnResultComponent, diversionInformation_ReturnErrorComp [3] IMPLICIT DiversionInformation_ReturnErrorComponent, diversionInformation_RejectComp [4] IMPLICIT RejectComponent } -- This is the DiversionInformation InvokeComponent -- DiversionInformation_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the DiversionInformation ReturnResultComponent -- DiversionInformation_ReturnResultComponent ::= NULL -- This is the DiversionInformation ReturnErrorComponent -- DiversionInformation_ReturnErrorComponent ::= NULL -- Common (local) type elements -- Argument ::= SEQUENCE { diversionReason DiversionReason, basicService BasicService, servedUserSubaddress PartySubaddress OPTIONAL, callingAddress [0] PresentedAddressScreened OPTIONAL, originalCalledNr [1] PresentedNumberUnscreened OPTIONAL, lastDivertingNr [2] PresentedNumberUnscreened OPTIONAL, lastDivertingReason [3] DiversionReason OPTIONAL, userInfo Q931InformationElement OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DiversionReason
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { unknown2 (0), cfu2 (1), cfb2 (2), cfmr2 (3), cdAlerting (4), cdImmediate (5)} </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DivertingLegInformation1_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { divertingLegInformation1_InvokeComp [1] IMPLICIT DivertingLegInformation1_InvokeComponent, divertingLegInformation1_ReturnResultComp [2] IMPLICIT DivertingLegInformation1_ReturnResultComponent, divertingLegInformation1_ReturnErrorComp [3] IMPLICIT DivertingLegInformation1_ReturnErrorComponent, divertingLegInformation1_RejectComp [4] IMPLICIT RejectComponent } -- This is the DivertingLegInformation1 InvokeComponent -- DivertingLegInformation1_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the DivertingLegInformation1 ReturnResultComponent -- DivertingLegInformation1_ReturnResultComponent ::= NULL -- This is the DivertingLegInformation1 ReturnErrorComponent -- DivertingLegInformation1_ReturnErrorComponent ::= NULL -- Common (local) type elements -- Argument ::= SEQUENCE { diversionReason DiversionReason, subscriptionOption SubscriptionOption, divertedToNumber PresentedNumberUnscreened OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DivertingLegInformation2_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { divertingLegInformation2_InvokeComp [1] IMPLICIT DivertingLegInformation2_InvokeComponent, divertingLegInformation2_ReturnResultComp [2] IMPLICIT DivertingLegInformation2_ReturnResultComponent, divertingLegInformation2_ReturnErrorComp [3] IMPLICIT DivertingLegInformation2_ReturnErrorComponent, divertingLegInformation2_RejectComp [4] IMPLICIT RejectComponent } -- This is the DivertingLegInformation2 InvokeComponent -- DivertingLegInformation2_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the DivertingLegInformation2 ReturnResultComponent -- DivertingLegInformation2_ReturnResultComponent ::= NULL -- This is the DivertingLegInformation2 ReturnErrorComponent -- DivertingLegInformation2_ReturnErrorComponent ::= NULL -- Common (local) type elements -- Argument ::= SEQUENCE { diversionCounter DiversionCounter, diversionReason DiversionReason, divertingNr [1] PresentedNumberUnscreened OPTIONAL, originalCalledNr [2] PresentedNumberUnscreened OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DivertingLegInformation3_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { divertingLegInformation3_InvokeComp [1] IMPLICIT DivertingLegInformation3_InvokeComponent, divertingLegInformation3_ReturnResultComp [2] IMPLICIT DivertingLegInformation3_ReturnResultComponent, divertingLegInformation3_ReturnErrorComp [3] IMPLICIT DivertingLegInformation3_ReturnErrorComponent, divertingLegInformation3_RejectComp [4] IMPLICIT RejectComponent } -- This is the DivertingLegInformation3 InvokeComponent -- DivertingLegInformation3_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the DivertingLegInformation3 ReturnResultComponent -- DivertingLegInformation3_ReturnResultComponent ::= NULL -- This is the DivertingLegInformation3 ReturnErrorComponent -- DivertingLegInformation3_ReturnErrorComponent ::= NULL -- Common (local) type elements -- Argument ::= SEQUENCE { presentationAllowedIndicator PresentationAllowedIndicator }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DropCONF_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { dropCONF_InvokeComp [1] IMPLICIT DropCONF_InvokeComponent, dropCONF_ReturnResultComp [2] IMPLICIT DropCONF_ReturnResultComponent, dropCONF_ReturnErrorComp [3] IMPLICIT DropCONF_ReturnErrorComponent, dropCONF_RejectComp [4] IMPLICIT RejectComponent } -- This is the DropCONF InvokeComponent -- DropCONF_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in supplementary services operation_value Operation, argument Argument OPTIONAL } -- This is the DropCONF ReturnResultComponent -- DropCONF_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result argument here - check -- This is the DropCONF ReturnErrorComponent -- DropCONF_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= PartyID </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: EctExecute_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { ectExecute_InvokeComp [1] IMPLICIT EctExecute_InvokeComponent, ectExecute_ReturnResultComp [2] IMPLICIT EctExecute_ReturnResultComponent, ectExecute_ReturnErrorComp [3] IMPLICIT EctExecute_ReturnErrorComponent, ectExecute_RejectComp [4] IMPLICIT RejectComponent } -- This is the EctExecute InvokeComponent -- EctExecute_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" of GFP not used in SS operation_value Operation } -- no argument with this invoke comp -- This is the EctExecute ReturnResultComponent -- EctExecute_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result field with this return result component -- This is the EctExecute ReturnErrorComponent -- EctExecute_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: EctInform_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { ectInform_InvokeComp [1] IMPLICIT EctInform_InvokeComponent, ectInform_ReturnResultComp [2] IMPLICIT EctInform_ReturnResultComponent, ectInform_ReturnErrorComp [3] IMPLICIT EctInform_ReturnErrorComponent, ectInform_RejectComp [4] IMPLICIT RejectComponent } -- This is the EctInform InvokeComponent -- EctInform_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the EctInform ReturnResultComponent -- EctInform_ReturnResultComponent ::= NULL -- no return result component -- This is the EctInform ReturnErrorComponent -- EctInform_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { enum_elem ENUMERATED {alerting (0), active (1)}, redirectionNumber PresentedNumberUnscreened OPTIONAL }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: EctLinkIdRequest_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { ectLinkIdRequest_InvokeComp [1] IMPLICIT EctLinkIdRequest_InvokeComponent, ectLinkIdRequest_ReturnResultComp [2] IMPLICIT EctLinkIdRequest_ReturnResultComponent, ectLinkIdRequest_ReturnErrorComp [3] IMPLICIT EctLinkIdRequest_ReturnErrorComponent, ectLinkIdRequest_RejectComp [4] IMPLICIT RejectComponent } -- This is the EctLinkIdRequest InvokeComponent -- EctLinkIdRequest_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument with this invoke component -- This is the EctLinkIdRequest ReturnResultComponent -- EctLinkIdRequest_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the EctLinkIdRequest ReturnErrorComponent -- EctLinkIdRequest_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Result ::= LinkId</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: EctLoopTest_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { ectLoopTest_InvokeComp [1] IMPLICIT EctLoopTest_InvokeComponent, ectLoopTest_ReturnResultComp [2] IMPLICIT EctLoopTest_ReturnResultComponent, ectLoopTest_ReturnErrorComp [3] IMPLICIT EctLoopTest_ReturnErrorComponent, ectLoopTest_RejectComp [4] IMPLICIT RejectComponent } -- This is the EctLoopTest InvokeComponent -- EctLoopTest_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the EctLoopTest ReturnResultComponent -- EctLoopTest_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the EctLoopTest ReturnErrorComponent -- EctLoopTest_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= CallTransferIdentity CallTransferIdentity ::= INTEGER (-128..127) Result ::= LoopResult LoopResult ::= ENUMERATED { insufficientInformation (0), noLoopExists (1), simultaneousTransfer (2) }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: EndPTY3_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { endPTY3_InvokeComp [1] IMPLICIT EndPTY3_InvokeComponent, endPTY3_ReturnResultComp [2] IMPLICIT EndPTY3_ReturnResultComponent, endPTY3_ReturnErrorComp [3] IMPLICIT EndPTY3_ReturnErrorComponent, endPTY3_RejectComp [4] IMPLICIT RejectComponent } -- This is the EndPTY3 InvokeComponent -- EndPTY3_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in supplementary services operation_value Operation } -- This is the EndPTY3 ReturnResultComponent -- EndPTY3_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result argument here -- This is the EndPTY3 ReturnErrorComponent -- EndPTY3_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: EraseCallLinkageID_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { eraseCallLinkageID_InvokeComp [1] IMPLICIT EraseCallLinkageID_InvokeComponent, eraseCallLinkageID_ReturnResultComp [2] IMPLICIT EraseCallLinkageID_ReturnResultComponent, eraseCallLinkageID_ReturnErrorComp [3] IMPLICIT EraseCallLinkageID_ReturnErrorComponent, eraseCallLinkageID_RejectComp [4] IMPLICIT RejectComponent } -- This is the EraseCallLinkageID InvokeComponent -- EraseCallLinkageID_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the EraseCallLinkageID ReturnResultComponent -- EraseCallLinkageID_ReturnResultComponent ::= NULL -- no RESULT specified -- This is the EraseCallLinkageID ReturnErrorComponent -- EraseCallLinkageID_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= CallLinkageID </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ExplicitEctExecute_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { explicitEctExecute_InvokeComp [1] IMPLICIT ExplicitEctExecute_InvokeComponent, explicitEctExecute_ReturnResultComp [2] IMPLICIT ExplicitEctExecute_ReturnResultComponent, explicitEctExecute_ReturnErrorComp [3] IMPLICIT ExplicitEctExecute_ReturnErrorComponent, explicitEctExecute_RejectComp [4] IMPLICIT RejectComponent } -- This is the ExplicitEctExecute InvokeComponent -- ExplicitEctExecute_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the ExplicitEctExecute ReturnResultComponent -- ExplicitEctExecute_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result field with this return result comp -- This is the ExplicitEctExecute ReturnErrorComponent -- ExplicitEctExecute_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= LinkId </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: FIE
Encoding Variation	:
Comments	: Facility information element taken from ETS 300 196:1993; 11.2.2.1. Specified here for both send & receive event.
Type Definition	
<pre> SEQUENCE { informationElementIdentifier FIE_I, length FIE_LengthType, extBit BIT STRING (SIZE (1)), spareBits BIT STRING (SIZE (2)), protocolProfile BIT STRING (SIZE (5)), components SET OF Component } </pre>	
Detailed Comments	: &COMMON_N10 When sending normally only one component is sent, but when receiving any number of components can be recieved even though normally we are only interested in one component.

ASN.1 Type Definition	
Type Name	: FIES
Encoding Variation	:
Comments	: This type carries a SET OF FIE. The order of the element is of no interest.
Type Definition	
SET OF FIE	
Detailed Comments : &COMMON_N10	

ASN.1 Type Definition	
Type Name	: FIE_I
Encoding Variation	:
Comments	: Identifier for the Facility information element.
Type Definition	
BIT STRING('00011100'B)	
Detailed Comments : &COMMON_N10	

ASN.1 Type Definition	
Type Name	: FIE_LengthType
Encoding Variation	:
Comments	:
Type Definition	
BIT STRING(SIZE(8))	
Detailed Comments : &COMMON_N10 This type is needed in the test suite operation TSO_CALC_FIE_LENGTH.	

ASN.1 Type Definition	
Type Name	: GeneralProblem
Encoding Variation	:
Comments	: from ETS 300 196 D.1
Type Definition	
ROSE_Problems (unrecognizedComponent mistypedComponent badlyStructuredComponent)	
Detailed Comments : &COMMON_N10 Type restricted to these three.	

ASN.1 Type Definition	
Type Name	: General_Components
Encoding Variation	:
Comments	: Non specified components must match this type definition.
Type Definition	
<pre> CHOICE { general_InvokeComp [1] IMPLICIT General_InvokeComponent, general_ReturnResultComp [2] IMPLICIT General_ReturnResultComponent, general_ReturnErrorComp [3] IMPLICIT General_ReturnErrorComponent, general_RejectComp [4] IMPLICIT RejectComponent } -- This is the General InvokeComponent -- General_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, linked_ID [0] IMPLICIT InvokeIDType OPTIONAL, operation_value Operation, argument ANY OPTIONAL } -- This is the General ReturnResultComponent -- General_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result ANY } OPTIONAL } -- This is the General ReturnErrorComponent -- General_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error ANY } </pre>	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: IntResult
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE {servedUserNr ServedUserNr, basicService BasicService, procedure Procedure, forwardedToAddress Address } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IntResultList
Encoding Variation	:
Comments	:
Type Definition	
SET SIZE (0..29) OF IntResult	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InterrogateServedUserNumbers_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { interrogateServedUserNumbers_InvokeComp [1] IMPLICIT InterrogateServedUserNumbers_InvokeComponent, interrogateServedUserNumbers_ReturnResultComp [2] IMPLICIT InterrogateServedUserNumbers_ReturnResultComponent, interrogateServedUserNumbers_ReturnErrorComp [3] IMPLICIT InterrogateServedUserNumbers_ReturnErrorComponent, interrogateServedUserNumbers_RejectComp [4] IMPLICIT RejectComponent } -- This is the InterrogateServedUserNumbers InvokeComponent -- InterrogateServedUserNumbers_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation } -- no argument field with this invoke comp -- This is the InterrogateServedUserNumbers ReturnResultComponent -- InterrogateServedUserNumbers_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result ServedUserNumberList } OPTIONAL } -- This is the InterrogateServedUserNumbers ReturnErrorComponent -- InterrogateServedUserNumbers_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Result ::= ServedUserNumberList </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InterrogationDiversiOn_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { interrogationDiversiOn_InvokeComp [1] IMPLICIT InterrogationDiversiOn_InvokeComponent, interrogationDiversiOn_ReturnResultComp [2] IMPLICIT InterrogationDiversiOn_ReturnResultComponent, interrogationDiversiOn_ReturnErrorComp [3] IMPLICIT InterrogationDiversiOn_ReturnErrorComponent, interrogationDiversiOn_RejectComp [4] IMPLICIT RejectComponent } -- This is the InterrogationDiversiOn InvokeComponent -- InterrogationDiversiOn_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the InterrogationDiversiOn ReturnResultComponent -- InterrogationDiversiOn_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the InterrogationDiversiOn ReturnErrorComponent -- InterrogationDiversiOn_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { procedure Procedure, basicService BasicService, servedUserNr ServedUserNr } Result ::= IntResultList </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InvalidCCBSInterrogate_Components
Encoding Variation	:
Comments	: Uses CCBSInterrogateInvoke component with CCBSReference parameter of incorrect type.
Type Definition	
<pre> CHOICE { cCBSInterrogate_InvokeComp [1] IMPLICIT CCBSInterrogate_InvokeComponent, cCBSInterrogate_ReturnResultComp [2] IMPLICIT CCBSInterrogate_ReturnResultComponent, cCBSInterrogate_ReturnErrorComp [3] IMPLICIT CCBSInterrogate_ReturnErrorComponent, cCBSInterrogate_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSInterrogate InvokeComponent -- CCBSInterrogate_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSInterrogate ReturnResultComponent -- CCBSInterrogate_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the CCBSInterrogate ReturnErrorComponent -- CCBSInterrogate_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { cCBSReference BIT STRING OPTIONAL, -- incorrect type partyNumberOfA PartyNumber OPTIONAL} Result ::= SEQUENCE { recallMode RecallMode, callDetails CallDetails OPTIONAL} CallDetails ::= SEQUENCE OF CallInformation (SIZE(1..5)) </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InvokeIDType
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (-32768 .. 32767)	
Detailed Comments	: <p>&COMMON_N10</p> <p>Values: Sending Components: If it is an invoke component then use Test Case Variable (with default) to set value. If another invoke component is sent the TCV should be incremented beforehand. If it is a return result, error or reject component in response to a received invoke component then use TCV also, making sure the value is set to the value of the received component beforehand.</p> <p>Receiving Components: If it is an invoke comp then use '?'. If it is a return result, error or reject component in response to a sent invoke component then use TCV value (as used in sent invoke component).</p>

ASN.1 Type Definition	
Type Name	: InvokeProblem
Encoding Variation	:
Comments	: from ETS 300 196 D.1
Type Definition	
ROSE_Problems (duplicateInvocation unrecognizedOperation mistypedArgument resourceLimitation initiatorReleasing unrecognizedLinkedID linkedResponseUnexpected unexpectedChildOperation)	
Detailed Comments	: &COMMON_N10 Type restricted to these 8.

ASN.1 Type Definition	
Type Name	: IsolateCONF_Components
Encoding Variation	:
Comments	:
Type Definition	
CHOICE { isolateCONF_InvokeComp [1] IMPLICIT IsolateCONF_InvokeComponent, isolateCONF_ReturnResultComp [2] IMPLICIT IsolateCONF_ReturnResultComponent, isolateCONF_ReturnErrorComp [3] IMPLICIT IsolateCONF_ReturnErrorComponent, isolateCONF_RejectComp [4] IMPLICIT RejectComponent } -- This is the IsolateCONF InvokeComponent -- IsolateCONF_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" not used in supplementary services operation_value Operation, argument Argument OPTIONAL } -- This is the IsolateCONF ReturnResultComponent -- IsolateCONF_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result argument here – check -- This is the IsolateCONF ReturnErrorComponent -- IsolateCONF_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= PartyID	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: LinkId
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (1..127)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: MCIDRequest_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { mCIDRequest_InvokeComp [1] IMPLICIT MCIDRequest_InvokeComponent, mCIDRequest_ReturnResultComp [2] IMPLICIT MCIDRequest_ReturnResultComponent, mCIDRequest_ReturnErrorComp [3] IMPLICIT MCIDRequest_ReturnErrorComponent, mCIDRequest_RejectComp [4] IMPLICIT RejectComponent } -- This is the MCIDRequest InvokeComponent -- MCIDRequest_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, operation_value Operation} -- This is the MCIDRequest ReturnResultComponent -- MCIDRequest_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- This is the MCIDRequest ReturnErrorComponent -- MCIDRequest_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: NSAPSubaddress
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
OCTET STRING (SIZE (1 .. 20))	
Detailed Comments	: &COMMON_U09

ASN.1 Type Definition	
Type Name	: NumberDigits
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
NumericString (SIZE(1..20))	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: OID
Encoding Variation	:
Comments	: Used by constraint TSC_eCTOID and others to specify error and operation values.
Type Definition	
OBJECT IDENTIFIER	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Operation
Encoding Variation	:
Comments	: from ETS 300 196 (table E.1) & CCITT X.219 (figure 4).
Type Definition	
CHOICE { localValue INTEGER, globalValue OBJECT IDENTIFIER}	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: PartyDISC_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { partyDISC_InvokeComp [1] IMPLICIT PartyDISC_InvokeComponent, partyDISC_ReturnResultComp [2] IMPLICIT PartyDISC_ReturnResultComponent, partyDISC_ReturnErrorComp [3] IMPLICIT PartyDISC_ReturnErrorComponent, partyDISC_RejectComp [4] IMPLICIT RejectComponent } -- This is the PartyDISC InvokeComponent -- PartyDISC_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" not used in SSs operation_value Operation, argument Argument OPTIONAL }</pre> <pre>-- This is the PartyDISC ReturnResultComponent -- PartyDISC_ReturnResultComponent ::= NULL -- no return result component defined -- This is the PartyDISC ReturnErrorComponent -- PartyDISC_ReturnErrorComponent ::= NULL -- no return error component defined -- Common (local) type elements -- Argument ::= PartyID</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PartyID
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0 .. 127)	
Detailed Comments	: see ETS 300 185 p11

ASN.1 Type Definition	
Type Name	: PartyNumber
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
CHOICE { unknownPartyNumber [0] IMPLICIT NumberDigits, -- the numbering plan is the default numbering plan of the network. -- It is recommended that this value is used. publicPartyNumber [1] IMPLICIT PublicPartyNumber, -- the numbering plan is according to CCITT Recommendation E.163 and E.164. dataPartyNumber [3] IMPLICIT NumberDigits, -- not used, value reserved. telexPartyNumber [4] IMPLICIT NumberDigits, -- not used, value reserved. privatePartyNumber [5] IMPLICIT PrivatePartyNumber, nationalStandardPartyNumber [8] IMPLICIT NumberDigits} -- not used, value reserved.	
Detailed Comments	: &COMMON_U09

ASN.1 Type Definition	
Type Name	: PartySubaddress
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
CHOICE { userSpecifiedSubaddress UserSpecifiedSubaddress, nSAPSubaddress NSAPSubaddress }	
Detailed Comments	: &COMMON_U09

ASN.1 Type Definition	
Type Name	: PresentationAllowedIndicator
Encoding Variation	:
Comments	:
Type Definition	
BOOLEAN	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PresentedAddressScreened
Encoding Variation	:
Comments	:
Type Definition	
CHOICE {	<p>presentationAllowedAddress [0] IMPLICIT AddressScreened, presentationRestricted [1] IMPLICIT NULL, numberNotAvailableDueToInterworking [2] IMPLICIT NULL, presentationRestrictedAddress [3] IMPLICIT AddressScreened }</p>
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: PresentedNumberUnscreened
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
CHOICE {	<p>presentationAllowedNumber [0] PartyNumber, presentationRestricted [1] IMPLICIT NULL, numberNotAvailableDueToInterworking [2] IMPLICIT NULL, presentationRestrictedNumber [3] PartyNumber}</p>
Detailed Comments : &COMMON_U09	

ASN.1 Type Definition	
Type Name	: PrivatePartyNumber
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
SEQUENCE {	<p>privateTypeOfNumber TypeOfNumber, privateNumberDigits NumberDigits}</p>
Detailed Comments : &COMMON_U09	

ASN.1 Type Definition	
Type Name	: Procedure
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED {cfu(0), cfb(1), cfnr(2)}	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: PublicPartyNumber
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
SEQUENCE { <div style="margin-left: 40px;">publicTypeOfNumber TypeOfNumber, publicNumberDigits NumberDigits)</div>	
Detailed Comments	: &COMMON_U09

ASN.1 Type Definition	
Type Name	: Q931InformationElement
Encoding Variation	:
Comments	:
Type Definition	
[APPLICATION 0] IMPLICIT OCTET STRING	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ROSE_Problems
Encoding Variation	:
Comments	: from ETS 300 196 D.1
Type Definition	
INTEGER { unrecognizedComponent (0), -- GeneralProblem unrecognizedInvocation (0), -- ReturnResultProblem, ReturnErrorProblem duplicateInvocation (0), -- InvokeProblem mistypedComponent (1), -- GeneralProblem errorResponseUnexpected (1), -- ReturnErrorProblem resultResponseUnexpected (1), -- ReturnResultProblem unrecognizedOperation (1), -- InvokeProblem badlyStructuredComponent (2), -- GeneralProblem unrecognizedError (2), -- ReturnErrorProblem mistypedArgument (2), -- InvokeProblem mistypedResult (2), -- ReturnResultProblem resourceLimitation (3), -- InvokeProblem unexpectedError (3), -- ReturnErrorProblem mistypedParameter (4), -- ReturnErrorProblem initiatorReleasing (4), -- InvokeProblem unrecognizedLinkedID (5), -- InvokeProblem linkedResponseUnexpected (6), -- InvokeProblem unexpectedChildOperation (7) -- InvokeProblem }	
Detailed Comments	: &COMMON_N10 Errors of the same integer value are distinguished by their different parent types (General, Invoke, ReturnResult, ReturnError).

ASN.1 Type Definition	
Type Name	: ReattachCONF_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { reattachCONF_InvokeComp [1] IMPLICIT ReattachCONF_InvokeComponent, reattachCONF_ReturnResultComp [2] IMPLICIT ReattachCONF_ReturnResultComponent, reattachCONF_ReturnErrorComp [3] IMPLICIT ReattachCONF_ReturnErrorComponent, reattachCONF_RejectComp [4] IMPLICIT RejectComponent } -- This is the ReattachCONF InvokeComponent -- ReattachCONF_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" not used in SSs operation_value Operation, argument Argument OPTIONAL } -- This is the ReattachCONF ReturnResultComponent -- ReattachCONF_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result argument here -- This is the ReattachCONF ReturnErrorComponent -- ReattachCONF_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= PartyID </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RecallMode
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { globalRecall (0), specificRecall (1) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RejectComponent
Encoding Variation	:
Comments	: Reject Component is not specific to any particular operation. The invokeID may be used to identify a specific operation.
Type Definition	
<pre> SEQUENCE { invokedID CHOICE { invokeID InvokeIDType, null NULL }, problem CHOICE { generalProblem [0] IMPLICIT GeneralProblem, invokeProblem [1] IMPLICIT InvokeProblem, returnResultProblem [2] IMPLICIT ReturnResultProblem, returnErrorProblem [3] IMPLICIT ReturnErrorProblem } } </pre>	
Detailed Comments	: &COMMON_N10

ASN.1 Type Definition	
Type Name	: RequestSubaddress_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { requestSubaddress_InvokeComp [1] IMPLICIT RequestSubaddress_InvokeComponent, requestSubaddress_ReturnResultComp [2] IMPLICIT RequestSubaddress_ReturnResultComponent, requestSubaddress_ReturnErrorComp [3] IMPLICIT RequestSubaddress_ReturnErrorComponent, requestSubaddress_RejectComp [4] IMPLICIT RejectComponent } </pre> <p>-- This is the RequestSubaddress InvokeComponent --</p> <pre> RequestSubaddress_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" of GFP not used in SS operation_value Operation } -- no argument with this invoke component </pre> <p>-- This is the RequestSubaddress ReturnResultComponent --</p> <pre> RequestSubaddress_ReturnResultComponent ::= NULL -- note that there is no return result component </pre> <p>-- This is the RequestSubaddress ReturnErrorComponent --</p> <pre> RequestSubaddress_ReturnErrorComponent ::= NULL -- note that there is no return error component </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ReturnErrorProblem
Encoding Variation	:
Comments	: from ETS 300 196 D.1
Type Definition	
ROSE_Problems (unrecognizedInvocation errorResponseUnexpected unrecognizedError unexpectedError mistypedParameter)	
Detailed Comments	: &COMMON_N10 Type restricted to these 5.

ASN.1 Type Definition	
Type Name	: ReturnResultProblem
Encoding Variation	:
Comments	: from ETS 300 196 D.1
Type Definition	
ROSE_Problems (unrecognizedInvocation resultResponseUnexpected mistypedResult)	
Detailed Comments	: &COMMON_N10 Type restricted to these three.

ASN.1 Type Definition	
Type Name	: SIO
Encoding Variation	:
Comments	: Service Information Octet FS : 2.1.1.1 / 61/155 17-CRT 212 31 Uen Rev. A
Type Definition	
OCTET STRING(SIZE(1))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ScreeningIndicator
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { userProvidedNotScreened (0), -- number was provided by a remote user terminal equipment, and -- has been screened by a network that is not the local public -- or local private network. userProvidedVerifiedAndPassed (1), -- number was provided by a remote user terminal equipment (or -- by a remote private network), and has been screened by the -- local public or local private network. userProvidedVerifiedAndFailed (2), -- not used, value reserved networkProvided (3)} -- number was provided by local public or local private network	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ServedUserNr
Encoding Variation	:
Comments	:
Type Definition	
CHOICE {individualNumber PartyNumber, allNumbers NULL}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ServedUserNumberList
Encoding Variation	:
Comments	:
Type Definition	
SET SIZE (0..99) OF PartyNumber	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SplitCONF_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { splitCONF_InvokeComp [1] IMPLICIT SplitCONF_InvokeComponent, splitCONF_ReturnResultComp [2] IMPLICIT SplitCONF_ReturnResultComponent, splitCONF_ReturnErrorComp [3] IMPLICIT SplitCONF_ReturnErrorComponent, splitCONF_RejectComp [4] IMPLICIT RejectComponent } -- This is the SplitCONF InvokeComponent -- SplitCONF_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in supplementary services operation_value Operation, argument Argument OPTIONAL } -- This is the SplitCONF ReturnResultComponent -- SplitCONF_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- no result argument here -- This is the SplitCONF ReturnErrorComponent -- SplitCONF_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error Error } -- Common (local) type elements -- Argument ::= SEQUENCE { conferenceID ConferenceID, partyID PartyID } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: StatusRequest_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { statusRequest_InvokeComp [1] IMPLICIT StatusRequest_InvokeComponent, statusRequest_ReturnResultComp [2] IMPLICIT StatusRequest_ReturnResultComponent, statusRequest_ReturnErrorComp [3] IMPLICIT StatusRequest_ReturnErrorComponent, statusRequest_RejectComp [4] IMPLICIT RejectComponent } -- This is the StatusRequest InvokeComponent -- StatusRequest_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the StatusRequest ReturnResultComponent -- StatusRequest_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result StatusResult } OPTIONAL } -- This is the StatusRequest ReturnErrorComponent -- StatusRequest_ReturnErrorComponent ::= NULL -- no ERROR specified -- Common (local) type elements -- Argument ::= SEQUENCE { compatibilityMode CompatibilityMode, q931InfoElement Q931InformationElement -- BCAP/HLC/LLC embedded } StatusResult ::= ENUMERATED { compatibleAndFree (0), compatibleAndBusy (1), incompatible (2) } CompatibilityMode ::= ENUMERATED { allBasicServices (0), oneOrMoreBasicServices (1) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SubaddressInformation
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
OCTET STRING (SIZE (1 .. 20))	
Detailed Comments	: &COMMON_U09

ASN.1 Type Definition	
Type Name	: SubaddressTransfer_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { subaddressTransfer_InvokeComp [1] IMPLICIT SubaddressTransfer_InvokeComponent, subaddressTransfer_ReturnResultComp [2] IMPLICIT SubaddressTransfer_ReturnResultComponent, subaddressTransfer_ReturnErrorComp [3] IMPLICIT SubaddressTransfer_ReturnErrorComponent, subaddressTransfer_RejectComp [4] IMPLICIT RejectComponent } -- This is the SubaddressTransfer InvokeComponent -- SubaddressTransfer_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the SubaddressTransfer ReturnResultComponent -- SubaddressTransfer_ReturnResultComponent ::= NULL -- no return result component -- This is the SubaddressTransfer ReturnErrorComponent -- SubaddressTransfer_ReturnErrorComponent ::= NULL -- no return error component -- Common (local) type elements -- Argument ::= transferredToSubaddress transferredToSubaddress ::= PartySubaddress </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SubscriptionOption
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { noNotification (0), notificationWithoutDivertedToNr (1), notificationWithDivertedToNr (2)} </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TypeOfNumber
Encoding Variation	:
Comments	: from ETS 300 196 D.3, modified for TTCN ASN.1 (combination of PublicTypeOfNumber and PrivateTypeOfNumber).
Type Definition	
ENUMERATED { unknown (0), level2RegionalNumber (1), internationalNumber (1), level1RegionalNumber (2), nationalNumber (2), pTNSpecificNumber (3), networkSpecificNumber (3), localNumber (4), subscriberNumber (4), abbreviatedNumber (6) }	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: UserSpecifiedSubaddress
Encoding Variation	:
Comments	: from ETS 300 196 D.3
Type Definition	
SEQUENCE { subaddressInformation SubaddressInformation, oddCountIndicator BOOLEAN OPTIONAL }	
Detailed Comments : &COMMON_U09	

ASN.1 Type Definition	
Type Name	: UserUserService_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { userUserService_InvokeComp [1] IMPLICIT UserUserService_InvokeComponent, userUserService_ReturnResultComp [2] IMPLICIT UserUserService_ReturnResultComponent, userUserService_ReturnErrorComp [3] IMPLICIT UserUserService_ReturnErrorComponent, userUserService_RejectComp [4] IMPLICIT RejectComponent } -- This is the UserUserService InvokeComponent -- UserUserService_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, operation_value Operation, argument Argument } -- This is the UserUserService ReturnResultComponent -- UserUserService_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType } -- This is the UserUserService ReturnErrorComponent -- UserUserService_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error UUS_Error } Argument ::= SEQUENCE { service [1] IMPLICIT Service, preferred [2] IMPLICIT Preferred } Service ::= INTEGER { service1 (1), service2 (2), service3 (3)} (1..3) Preferred ::= BOOLEAN -- True = preferred request -- False = required request UUS_Error ::= Error (rejectedByUser -- Error type limited to these values rejectedByNetwork) </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Error
Encoding Variation	:
Comments	: Note that elements of INTEGER are global.
Type Definition	
<pre> INTEGER { -- Errors from General Errors (D.2 of ETS 300 196) -- notSubscribed (0), notAvailable (3), notImplemented (4), invalidServedUserNr (6), invalidCallState (7), basicServiceNotProvided (8), supplementaryServiceInteractionNotAllowed (10), resourceUnavailable (11), -- local error for conf and 3pty IllConferenceld (28), IllPartyld (29), NumberOfPartiesExceeded (30), NotActive (31), NotAllowed (32), -- error specific to CDIV -- notActivated (46), invalidDivertedToNr (12), specialServiceNr (14), diversionToServedUserNr (15), incomingCallAccepted (23), numberOfDiversionsExceeded (24), requestAlreadyAccepted (48), -- error specific to CUG -- invalidOrUnregisteredCUGIndex (16) , requestedBasicServiceViolatesCUGConstraints (17) , outgoingCallsBarredWithinCUG (18) , incomingCallsBarredWithinCUG (19) , userNotMemberOfCUG (20) , inconsistencyInDesignatedFacilityAndSubscriberClass (21), -- error specific to UUS -- rejectedByNetwork (1), rejectedByUser (2), -- error specific to CCBS -- invalidCallLinkageID (20), shortTermDenial (23), longTermDenial (22), cCBSIsAlreadyActivated (24), alreadyAccepted (25), outgoingCCBSQueueFull (26), callFailureReasonNotBusy (27), notReadyForCall (28) } </pre>	
Detailed Comments	: &COMMON_N07

ASN.1 Type Definition	
Type Name	: CCBSRequest_Components
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { cCBSRequest_InvokeComp [1] IMPLICIT CCBSRequest_InvokeComponent, cCBSRequest_ReturnResultComp [2] IMPLICIT CCBSRequest_ReturnResultComponent, cCBSRequest_ReturnErrorComp [3] IMPLICIT CCBSRequest_ReturnErrorComponent, cCBSRequest_RejectComp [4] IMPLICIT RejectComponent } -- This is the CCBSRequest InvokeComponent -- CCBSRequest_InvokeComponent ::= SEQUENCE { invokeID InvokeIDType, -- note "linkedID" of GFP not used in SS operation_value Operation, argument Argument OPTIONAL } -- This is the CCBSRequest ReturnResultComponent -- CCBSRequest_ReturnResultComponent ::= SEQUENCE { invokeID InvokeIDType, valueAndResult SEQUENCE { operation_value Operation, result Result } OPTIONAL } -- This is the CCBSRequest ReturnErrorComponent -- CCBSRequest_ReturnErrorComponent ::= SEQUENCE { invokeID InvokeIDType, error CCBSRequestError } -- Common (local) type elements -- Argument ::= CallLinkageID Result ::= SEQUENCE { recallMode RecallMode, cCBSReference CCBSReference } CCBSRequestError ::= Error (notSubscribed invalidCallLinkageID shortTermDenial longTermDenial cCBSIsAlreadyActivated supplementaryServiceInteractionNotAllowed outgoingCCBSQueueFull callFailureReasonNotBusy) </pre>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_ASSIGN_CHI(basic, primary : CHI; basic_flag : BOOLEAN)
Result Type	: CHI
Comments	:
Description	
<pre> { if(basic_flag) return basic; /* Testing the basic access */ else return primary; /* Testing the primary rate access */ } </pre>	
Detailed Comments	: &COMMON_N10

Test Suite Operation Definition	
Operation Name	: TSO_CALC_FIE_LENGTH(COMP: Component)
Result Type	: FIE_LengthType
Comments	: This operation is used to calculate the length of a Facility information element that carries a component.
Description	
The return value represents the length of the contents of a Facility information element in which this test suite operation is called depending on the number and the contents of the ROSE components included.	
Detailed Comments	: &COMMON_N09

Test Suite Operation Definition	
Operation Name	: TSO_CALC_NUM_LENGTH (NUM: HEX_N)
Result Type	: OCTETSTRING
Comments	: This operation is used to calculate the length of a Subscriber Number parameter
Description	
The return value represents the length of the Subscriber Number parameter (LENGTH(NUM)).	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_CALC_PAR_LENGTH
Result Type	: OCT_1
Comments	: This operation is used to calculate the length of an optional parameter
Description	
The return value represents the length of the optional parameter.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_CALC_VAR_LENGTH
Result Type	: OCT_1
Comments	: This operation is used to calculate the length of an variable parameter
Description	
The return value represents the length of the variable parameter.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: TSO_COMPLEMENT_F(FLAG:INTEGER)
Result Type	: INTEGER
Comments	:
Description	
<pre> { if(FLAG) return 0; /*when FLAG:=1 then reurn its comlement : 0 else return 1; /*otherwise return its complement : 1 } </pre>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: TSO_COMPUTE_OPT_PTR
Result Type	: OCT_1
Comments	: Computes the pointer to the optional part of a message.
Description	
<pre> { if(opt_pars_present) return(INT_TO_OCT(length_of_var_pars() + 1)); else return(INT_TO_OCT(0)); } </pre>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: TSO_GET_RESULT(FAC_IE : FIES; COMP: Component)
Result Type	: INTEGER
Comments	: This operation finds the invoke Id of the specified component in the received Facility information element(s)
Description	
This operation finds the component specified in the COMP parameter within the Facility information element(s) specified in the FAC_IE parameter and returns the value of the result of that component.	
Example: TCV_party_id1 := TSO_GET_RESULT (FAC_PDU.fie,c_ADDrr)	
Detailed Comments	: &COMMON_N09

Test Suite Operation Definition	
Operation Name	: TSO_NEXT_CIC(CICnr: BIT_12)
Result Type	: BIT_12
Comments	: Returns the next possible value for CIC
Description	
<pre> { int tmp; tmp = BIT_TO_INT(CICnr); if((tmp % 15) == 0) tmp += 2; /* timeslot 17 of current PCM line */ else if((tmp % (TSP_NB_CICS + 1)) == 0) tmp -= TSP_NB_CICS; /* timeslot 1 of current PCM line */ else tmp++; return(INT_TO_BIT(tmp)); } </pre>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_RANDOM_INVOKE_ID
Result Type	: InvokeIDType
Comments	: This operation is used to generate a random invoke identifier value..
Description	
This test suite operation returns a random value of type InvokeIDType. The result of this operation is restricted to values between -32768 and 32767.	
Detailed Comments	: &COMMON_N09

Test Suite Operation Definition	
Operation Name	: TSO_CONCAT (STR1, STR2 : BITSTRING)
Result Type	: BITSTRING
Comments	:
Description	
{ return INT_TO_BIT((BIT_TO_INT(STR1)*(2 EXPONENT length(STR2))) + BIT_TO_INT(STR2)) }	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_CONCAT_OCT (STR1, STR2 : BITSTRING)
Result Type	: OCTETSTRING
Comments	:
Description	
{ return INT_TO_BIT((BIT_TO_INT(STR1)*(2 EXPONENT length(STR2))) + BIT_TO_INT(STR2)) }	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_SUBSTR (STR: data_type; INDEX:INTEGER; LENGTH:INTEGER)
Result Type	: HEX_N
Comments	:
Description	
{ return a portion of STR starting at INDEX of LENGTH octets }	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: TSO_HEX_TO_NUM (NBr:HEX_N)
Result Type	: NumberDigits
Comments	: This operation is used to convert a hexadecimal value into numberstring
Description	
The return value represents the value of the telephone number in a Numeric string.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name : TSO_INT_TO_OCTET(NUM, LENGTH : INTEGER)	
Result Type : OCT_2	
Comments :	
Description	
{ return INT_TO_HEX(NUM,LENGTH) }	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name : TSO_HEX_TO_OCTET(NUM: HEX_N)	
Result Type : OCTETSTRING	
Comments :	
Description	
{ return HEX_TO_OCT(NUM) }	
Detailed Comments :	

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_OLE	BOOLEAN	PICS A.1/1	OLE–Originating local exchange
TSP_NTE	BOOLEAN	PICS A.1/2	NTE–National transit exchange
TSP_OUTIE	BOOLEAN	PICS A.1/3	OutIE–Outgoing international exchange
TSP_ITE	BOOLEAN	PICS A.1/4	ITE–International transit exchange
TSP_INCIE	BOOLEAN	PICS A.1/5	IncIE–Incoming international exchange
TSP_DLE	BOOLEAN	PICS A.1/6	DLE–Destination local exchange
TSP_ETE_PASS_ALONG	BOOLEAN	PICS A.2/1	End–to–end – Pass along method? NOTE: not supported in Q.785.2 –> not used in this test suite
TSP_ETE_SCCP_CONNECTION	BOOLEAN	PICS A.2/2	End–to–end – SCCP connection oriented NOTE: Not used
TSP_ETE_SCCP_CONNECTIONLESS	BOOLEAN	PICS A.2/3	End–to–end – SCCP connectionless? NOTE: Not used
TSP_GEN_NUMTR	BOOLEAN	PICS A.2/4	Generic number transfer?
TSP_GEN_DIGIT	BOOLEAN	PICS A.2/5	Generic digit transfer? NOTE: Not used
TSP_GEN_NOT_PROCEDURE	BOOLEAN	PICS A.2/6	Genereric notification procedure? NOTE: Not used
TSP_SIM_SERAC	BOOLEAN	PICS A.2/7	Simple service activation procedure?
TSP_REMOTE_OP	BOOLEAN	PICS A.2/8	Remote operations procedure? NOTE: Not used
TSP_SPECIF_PR	BOOLEAN	PICS A.2/9	Network specific procedures? NOTE: Not used
TSP_SUPPORT_CLIP	BOOLEAN	PICS A.3/1	Support the service calling line identification presentation (CLIP)?
TSP_SUPPORT_CLIR	BOOLEAN	PICS A.3/2	Suppport the service calling line identification restriction (CLIR) ?
TSP_SUPPORT_COLP	BOOLEAN	PICS A.3/3	Support the service connected line identification (COLP)?
TSP_SUPPORT_COLR	BOOLEAN	PICS A.3/4	Support the service connected line identification restriction (COLR)?
TSP_SUPPORT_TP	BOOLEAN	PICS A.3/5	Support the service terminal portability (TP)?
TSP_SUPPORT_UUS	BOOLEAN	PICS A.3/6	Support at least one user–to–user signalling service?
TSP_SUPPORT_CUG	BOOLEAN	PICS A.3/7	Support the service closed user group (CUG)?

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_SUPPORT_SUB	BOOLEAN	PICS A.3/8	Support the service sub-addressing (SUB)?
TSP_SUPPORT_MCID	BOOLEAN	PICS A.3/9	Support the service malicious call identification (MCID)?
TSP_SUPPORT_CONF	BOOLEAN	PICS A.3/10	Support the service conference call, add-on (CONF)?
TSP_SUPPORT_ECT	BOOLEAN	PICS A.3/11	Support the service explicit call transfer (ECT)?
TSP_SUPPORT_CFB	BOOLEAN	PICS A.3/12	Support the service call forwarding busy (CFB)?
TSP_SUPPORT_CFNr	BOOLEAN	PICS A.3/13	Support the service call forwarding no reply (CFNR)?
TSP_SUPPORT_CFU	BOOLEAN	PICS A.3/14	Support the service call forwarding unconditional (CFU)?
TSP_SUPPORT_CD	BOOLEAN	PICS A.3/15	Support the service call deflection (CD)?
TSP_SUPPORT_HOLD	BOOLEAN	PICS A.3/16	Support the service call hold (HOLD)?
TSP_SUPPORT_CW	BOOLEAN	PICS A.3/17	Support the service call waiting (CW)?
TSP_SUPPORT_CCBS	BOOLEAN	PICS A.3/18	Support the service completion of calls to busy subscriber (CCBS)?
TSP_SUPPORT_3PTY	BOOLEAN	PICS A.3/19	Support three party service (3PTY)?
TSP_SUPPORT_CCNR	BOOLEAN	PICS A.3/20	Support the service completion of calls on no reply (CCNR)? NOTE: Not supported in Q.785.2-> Not used
TSP_CLIP_OMIT_CGPN	BOOLEAN	PICS A.4/1	[OutIE] omit the calling party number in case of bilateral agreements?
TSP_CLIP_OMIT_GEN	BOOLEAN	PICS A.4/2	[OutIE] omit the additional calling party number in case of bilateral agreements?
TSP_CLIP_OMIT_CSA_AT	BOOLEAN	PICS A.4/3	[OutIE] omit the calling sub-address in the access transport parameter in case of bilateral agreements? NOTE: Not used
TSP_CLIP_ADD_PREFIX	BOOLEAN	PICS A.4/4	@[InIE] add prefix to the calling party number and set its nature of address indicator to "unknown"
TSP_CLIP_SUP_NAVAIL	BOOLEAN	PICS A.4/5	@[InIE] support the coding "address not available" in the address presentation restricted indicator of the calling party number?

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_CLIR_DIS_CGPN	BOOLEAN	PICS A.5/1	[OutIE] discard the calling party number if it is received with the address presentation restricted indicator set to "presentation restricted"?
TSP_CLIR_DIS_GEN	BOOLEAN	PICS A.5/2	[OutIE] discard the additional calling party number in the generic number if it is received with the address presentation restricted indicator set to "presentation restricted"?
TSP_CLIR_DIS_SA_IN_AT	BOOLEAN	PICS A.5/3	[OutIE] discard the calling sub-address in the access transport parameter if the calling party number is received with the address presentation restricted indicator set to "presentation restricted"? NOTE: Not used
TSP_COLP_ADD_PRE_CON	BOOLEAN	PICS A.6/1	@[OutIE] add a prefix to the connected number and set its nature of address indicator to "unknown"
TSP_COLP_OMIT_CON	BOOLEAN	PICS A.6/2	[InIE] omit the connected number in case of bilateral agreements?
TSP_COLP_OMIT_GEN	BOOLEAN	PICS A.6/3	[InIE] omit the additional connected number in the generic number in case of bilateral agreements?
TSP_COLP_REM_COL	BOOLEAN	PICS A.6/4	[InIE] remove the COL (zero the address signals of the connected number) and set the address presentation restriction indicator to "address not available"
TSP_COLP_DEL_COL	BOOLEAN	PICS A.6/5	[DLE] deliver the COL?
TSP_COLP_INC_CSA_AT	BOOLEAN	PICS A.6/6	[DLE] include, if provided by the user, the connected sub-address in the access transport parameter? NOTE: Not used
TSP_COLR_DIS_CON	BOOLEAN	PICS A.7/1	[InIE] discard the connected number if it is received with the presentation restriction indicator set to "presentation restricted"?
TSP_COLR_DIS_GEN	BOOLEAN	PICS A.7/2	[InIE] discard the additional connected number in the generic number if it is received with the presentation restriction indicator set to "presentation restricted"?

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_COLR_REM_COL	BOOLEAN	PICS A.7/3	[InclE] remove the COL (zero the address signals of the connected number) and change the presentation restriction indicator from "presentation restricted to "address not available"?
TSP_NS_TP_SUS	BOOLEAN	PICS A.8/1	[Gateway] support discarding of suspend messages, if the network does not support the TP service?
TSP_NS_CUG_REJ	BOOLEAN	PICS A.8/2	[InclE] support correct rejection or processing of CUG calls in case of interworking with networks not supporting CUG?
TSP_NS_MCID_IRS	BOOLEAN	PICS A.8/3	[OutIE] return an IRS with bit A of the MCID response indicator set to 0 "MCID not included", if the national network does not support the MCID service?
TSP_UUS_PAR_32	BOOLEAN	PICS A.9/1	Support the user-to-user information parameter with at least 32 octets as user information?
TSP_UUS_PAR_128	BOOLEAN	PICS A.9/2	Support the number of up to 128 octets as user information in the user-to-user information parameter? If not 128, specify maximum allowed number. NOTE: not used
TSP_UUS_PAR_128_NR	INTEGER	PICS table A.9/2	Support the number of up to 128 octets as user information in the user-to-user information parameter? If not 128, specify maximum allowed number. NOTE: not used
TSP_UUS1_IMPLICIT	BOOLEAN	PICS A.9/3	Support implicit request of service UUS1?
TSP_UUS1_EXPLICIT	BOOLEAN	PICS A.9/4	Support explicit request of service UUS1?
TSP_UUS_REJ_EXP	BOOLEAN	PICS A.9/5	[IntermE] support the rejection procedure of an explicit service request or discarding of user-to-user information as described in 1.1.5.2.5/Q.737
TSP_UUS_UUS2	BOOLEAN	PICS A.9/6	Support service UUS2?
TSP_UUS_DELIVER_UUI	BOOLEAN	PICS A.9/7	[DLE] delivers user-to-user information after the user has answered the call?
TSP_UUS_UUS3	BOOLEAN	PICS A.9/8	Support service UUS3?

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_CUG_DECENT	BOOLEAN	PICS A.10/1	Support closed user group with decentralized administration? NOTE: not used (mandatory feature)
TSP_CUG_CENT	BOOLEAN	PICS A.10/2	Support closed user group with centralized administration? NOTE: not used (not applicable feature)
TSP_CUG_CODE	BOOLEAN	PICS A.10/3	[Gateway] support conversion of national to international CUG codes?
TSP_SUB	BOOLEAN	PICS A.11/1	Support the maximum 23 octet length of the sub-address parameter? NOTE: not used (mandatory feature)
TSP_MCID_PRO_SUB	BOOLEAN	PICS A.12/1	[OLE] provide the calling party sub-address as part of the MCID service?
TSP_MCID_STORE_SUB	BOOLEAN	PICS A.12/2	[DLE] store and process the calling party sub-address as part of the MCID service? NOTE: not used
TSP_MCID_SUP_REG	BOOLEAN	PICS A.12/3	[DLE] support the registration of the original called number and the redirecting number for MCID when intevoking CFB, CFNR, CFU, CD?
TSP_MCID_OMIT_CGPN	BOOLEAN	PICS A.12/4	[OutIE] omit for MCID the calling party number in case of bilateral agreements?
TSP_MCID_MODIFY_RES	BOOLEAN	PICS A.12/5	[IncIE] modify the MCID response indicator set to 0 "MCID not included" according to the information available in the exchange?
TSP_CONF_NOTIFY	BOOLEAN	PICS A.13/1	Support the user notification procedures?
TSP_CONF_MAX_CONFERENCE	BOOLEAN	PICS A.13/2	[OLE] support of which maximum number of conference participants?
TSP_CONF_MAX_CONFERENCE_NR	INTEGER	PICS table A.13/2	[OLE] support of which maximum number of conference participants?
TSP_ECT_CALL_TRNS	BOOLEAN	PICS A.14/1	[Local] store remote user numbers (calling party number / connected number or additional calling party / additional connected number) and send them in the call transfer number when call transfer is performed?
TSP_ECT_LOOP_PREV	BOOLEAN	PICS A.14/2	Support the loop prevention procedure?

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_ECT_SUPPORT	BOOLEAN	PICS A.14/3	[Local] support the timer T(ect)? If yes, specify the timer value (2–6s). NOTE: not used
TSP_ECT_SUPPORT_VAL	INTEGER	PICS table A.14/3	[Local] support the timer T(ect)? If yes, specify the timer value (2–6s). NOTE: not used
TSP_ECT_TIME_EXPIRY	BOOLEAN	PICS A.14/4	[Local] reject the call transfer in case of TECT timer expiry?
TSP_ECT_COMPL_TIME_EXPIRY	BOOLEAN	PICS A.14/5	[Local] complete the call transfer in case of TECT timer expiry?
TSP_ECT_OMIT_CTN	BOOLEAN	PICS A.14/6	[Gateway] omit the call transfer number if the address presentation restriction indicator indicates "presentation restricted"?
TSP_ECT_SUP_LOP	BOOLEAN	PICS A.14/7	[IWorkE] support call control interworking between ISUP'97 and protocols not supporting the loop prevention procedure, i.e. return a LOP (response) message with the indication "insufficient information"?
TSP_ECT_REJ_LOP	BOOLEAN	PICS A.14/8	[Local] reject the call transfer in case receipt of LOP messages with the response indicator set to "insufficient information"?
TSP_ECT_COMP_LOP	BOOLEAN	PICS A.14/9	[Local] complete the call transfer in case receipt of LOP messages with the response indicator set to "insufficient information"?
TSP_CDIV_SUP_DIV_NOT	BOOLEAN	PICS A.15/1	support the diversion notification procedures ? NOTE: not used (mandatory feature)
TSP_CDIV_MAX_5	BOOLEAN	PICS A.15/2	support the maximum number of up to 5 diversions for each call? If not 5, specify the maximum allowed number.
TSP_CDIV_MAX_5_NR	INTEGER	PICS table A.15/2	support the maximum number of up to 5 diversions for each call? If not 5, specify the maximum allowed number.
TSP_CDIV_OMIT_OCT2	BOOLEAN	PICS A.15/3	[DLE] omit octet 2 of the redirection information if the redirection counter equals 1 ? NOTE: not used

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_CDIV_SUP_ORIG_REDIR	BOOLEAN	PICS A.15/4	[DLE] support the usage of the Original redirection reasons in the redirection information parameter with the encoding: 0001 user busy @ 0010 no reply @ 0011 unconditional NOTE: not used
TSP_CDIV_INC_REDIR_NR	BOOLEAN	PICS A.15/5	[DLE] include the redirection number in the ACM or CPG ? NOTE: not used (mandatory feature) NOTE: not used
TSP_CDIV_INC_REDIR_NR_ANM	BOOLEAN	PICS A.15/6	[DLE] include the redirection number in the ANM or CON? NOTE: not used
TSP_CDIV_PASS_ON_REDIR_NR	BOOLEAN	PICS A.15/7	[InclE] pass on the redirection number if received in an ACM or CPG ? NOTE: not used
TSP_CDIV_PASS_ON_REDIR_NR_ANM	BOOLEAN	PICS A.15/8	[InclE] pass on the redirection number if received in an ANM or CON ? NOTE: not used
TSP_CDIV_SUP_EVENT_INFO	BOOLEAN	PICS A.15/9	[Local] support the usage of event information with the encoding: 0000100 CFB 0000101 CFNR 0000110 CFU ? NOTE: not used
TSP_CDIV_SUP_TRANSP_EVENT	BOOLEAN	PICS A.15/10	[IntermE] support the transport of event information with the encoding: 0000100 CFB 0000101 CFNR 0000110 CFU ? NOTE: not used
TSP_CDIV_OMIT_ORIG_CALLNR	BOOLEAN	PICS A.15/11	[OutIE] omit the original called number in case of bilateral agreements ? NOTE: not used
TSP_CDIV_OMIT_RDNR	BOOLEAN	PICS A.15/12	[OutIE] omit the redirecting number in case of bilateral agreements ? NOTE: not used
TSP_CDIV_OMIT_RNUM	BOOLEAN	PICS A.15/13	[InclE] omit the redirection number in case of bilateral agreements ? NOTE: not used

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_CDIV_ADD_PREFIX_RDNR1	BOOLEAN	PICS A.15/14	@[OutIE] add a prefix to the redirection number and set its nature of address indicator to "unknown" (as for COLP A.6/1) NOTE: not used
TSP_CDIV_ADD_PREFIX_OCNR	BOOLEAN	PICS A.15/15	@[InIE] add a prefix to the original called number and set its nature of address indicator to "unknown" (as for CLIP A.4/4) NOTE: not used
TSP_CDIV_ADD_PREFIX_RDNR2	BOOLEAN	PICS A.15/16	@[InIE] add a prefix to the redirecting number and set its nature of address indicator to "unknown" (as for CLIP A.4/4) NOTE: not used
TSP_CFNRCALL_RET_CALL	BOOLEAN	PICS A.16/1	[Local] retain call to the served user until alerting begins at the diverted-to user (late release – option A) ?
TSP_CFNRCALL_CLEAR_CALL	BOOLEAN	PICS A.16/2	[Local] clear call to the served user on invocation of call diversion (immediate release – option B) ? NOTE: not used
TSP_CFNRCALL_THROUGH_CONNECT	BOOLEAN	PICS A.16/3	[Local] through-connect in both directions immediately after sending the IAM ? NOTE: not used
TSP_CFNRCALL_PF_THROUGH_CONNECT	BOOLEAN	PICS A.16/4	[Local] perform through-connection in both directions at the receipt of ACM or CON ? NOTE: not used
TSP_CFNRCALL_SUPPORT_CALL	BOOLEAN	PICS A.16/5	[Local] support the Call Forwarding No Reply timer ? If yes, specify the timer value.
TSP_HOLD_SUPPORT_SOON	BOOLEAN	PICS A.17/1	[OLE] support call hold as soon as the calling user has provided all of the information necessary for processing the call ?
TSP_HOLD_SUPPORT_AFTER	BOOLEAN	PICS A.17/2	[OLE] support call hold by the calling user after alerting has commenced ?
TSP_HOLD_SUPPORT_REMOTE	BOOLEAN	PICS A.17/3	supply the remote user with an in-band indication in the case of interworking with PSTN ?
TSP_CCBS_SUPPORT_RETAIN	BOOLEAN	PICS A.18/1	[Local] support the retain option?

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_CCBS_SUP_MAX_5	BOOLEAN	PICS A.18/2	[OLE] support the maximum number of up to 5 outstanding CCBS requests of a user ? If not 5, specify the maximum allowed number.
TSP_MAX_CCBS_REQUEST	INTEGER	PICS Table A.18/2	Maximum number of outstanding CCBS requests
TSP_CCBS_INC_CGPN	BOOLEAN	PICS A.18/3	[OLE] include the calling party number in the CCBS request invoke component ?
TSP_CCBS_NEW_REQUEST	BOOLEAN	PICS A.18/4	[OLE] treat a second identical activation of CCBS as a new request ?
TSP_CCBS_REJ_SECOND	BOOLEAN	PICS A.18/5	[OLE] reject a second identical activation of CCBS ?
TSP_CCBS_SUP_5QUE	BOOLEAN	PICS A.18/6	[DLE] support the maximum number of up to 5 queue entries? If not 5, specify the maximum allowed number.
TSP_MAX_CCBS_ENTRIES	INTEGER	PICS Table A.18/6	Support the maximum number of queue entries
TSP_CCBS_INITIATE	BOOLEAN	PICS A.18/7	[OLE] initiate the CCBS supplementary service even if no diagnostics is received in the release message with causes #17 or #34?
TSP_CCBS_B_BUSY	BOOLEAN	PICS A.18/8	[DLE] treat the CCBS call as a "destination B busy upon arrival of CCBS request" in case of interaction between CCBS and CFB ? NOTE: not used
TSP_CCBS_FORWARD	BOOLEAN	PICS A.18/9	[DLE] forward the CCBS call as a normal call in case of interaction between CCBS and CFB ?
TSP_CCBS_REL_AVAILABLE	BOOLEAN	PICS A.18/10	[DLE] release the call with the diagnostics "CCBS possible" when the service is available? NOTE: not used
TSP_CCBS_REL_NOT_AVAILABLE	BOOLEAN	PICS A.18/11	[DLE] release the call with the diagnostics "CCBS not possible" if the service is not available?
TSP_CCBS_SUP_RETENT_T	BOOLEAN	PICS A.18/12	[OLE] support the retention timer CCBS-T1 ? If yes, specify the timer value (greater than 15 s). NOTE: not used

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_CCBS_SUP_REQ_OP_T	BOOLEAN	PICS A.18/13	[OLE] support the CCBS request operation timer CCBS-T2 ? The value of the timer shall be 10 s. NOTE: not used
TSP_CCBS_SUP_DUR_T	BOOLEAN	PICS A.18/14	[OLE] support the CCBS service duration timer CCBS-T3 ? If yes, specify the timer value (15–45 min). NOTE: not used
TSP_CCBS_SUP_RECALL_T	BOOLEAN	PICS A.18/15	[OLE] support the CCBS recall timer CCBS-T4 ? If yes, specify the timer value (10–20 s). NOTE: not used
TSP_CCBS_SUP_SUPV_T	BOOLEAN	PICS A.18/16	[DLE] support the CCBS service supervision timer CCBS-T7 ? The value of the timer shall be 60 min. NOTE: not used
TSP_CCBS_SUP_B_IDLE_T	BOOLEAN	PICS A.18/17	[DLE] support the destination B idle guard timer CCBS-T8 ? If yes, specify the timer value (less than 15 s). NOTE: not used
TSP_CCBS_SUP_REC_R	BOOLEAN	PICS A.18/18	[DLE] support the recall timer CCBS-T9 ? The value of the timer shall be 30 s. NOTE: not used
TSP_CCBS_SUP_SUPER	BOOLEAN	PICS A.18/19	[Local] support the interworking supervision timer TSUP ? The value of the timer shall be 60 min.
TSP_SPA_R	BIT_14	PIXIT Table B.1/1	SS No. 7 Signalling point code of the SUT on the AB interface (right side)
TSP_SPA_L	BIT_14	PIXIT Table B.1/2	SS No. 7 Signalling point code of the SUT on the AC interface (left side)
TSP_SPB	BIT_14	PIXIT Table B.1/3	SS No. 7 Signalling point code of the tester on the AB interface (right side)
TSP_SPC	BIT_14	PIXIT Table B.1/4	SS No. 7 Signalling point code of the tester on the AC interface (left side)
TSP_NI_R	BIT_2	PIXIT Table B.1/5	SS No. 7 Network indicator on the AB interface
TSP_NI_L	BIT_2	PIXIT Table B.1/6	SS No. 7 Network indicator on the AC interface
TSP_SLS_R	INTEGER	PIXIT Table B.1/7	SS No. 7 Signalling link selection on the AB interface

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_SLS_L	INTEGER	PIXIT Table B.1/8	SS No. 7 Signalling link selection on the AC interface
TSP_CIC_R	BIT_12	PIXIT Table B.1/9	SS No. 7 Circuit identification code on the AB interface
TSP_CIC_L	BIT_12	PIXIT Table B.1/10	SS No. 7 Circuit identification code on the AC interface
TSP_NB_CICS	INTEGER	PIXIT Table B.1/11	Number of SS No. 7 Circuit identification codes on the AB and AC interfaces
TSP_NB_A	HEX_N	PIXIT Table B.2/1	Subscriber number located at SPA
TSP_NB_B	HEX_N	PIXIT Table B.2/2	Subscriber number located at SPB
TSP_NB_C	HEX_N	PIXIT Table B.2/3	Subscriber number located at SPC
TSP_NB_D	HEX_N	PIXIT Table B.2/4	Subscriber number located at SPD, beyond SPB
TSP_NB_D2	HEX_N	PIXIT Table B.2/5	Subscriber number located at SPD, beyond SPB
TSP_NB_D3	HEX_N	PIXIT Table B.2/6	Subscriber number located at SPD, beyond SPB
TSP_NB_D4	HEX_N	PIXIT Table B.2/7	Subscriber number located at SPD, beyond SPB
TSP_NB_E	HEX_N	PIXIT Table B.2/8	Subscriber number located at SPE, beyond SPC
TSP_OWNNCC	HEX_N	PIXIT Table B.2/9	Country code equal to that of the incoming network
TSP_PREFIX	HEX_N	PIXIT Table B.2/11	@ Prefix added to the international subscriber number
TSP_FORIEGNCC	HEX_N	PIXIT Table B.2/10	Country code not equal to that of the incoming network
TSP_NB_A_DEFAULT	HEX_N	PIXIT Table B.3/1	Subscriber number which will be provided as default number by the network for UNI A
TSP_NB_B_DEFAULT	HEX_N	PIXIT Table B.3/2	Subscriber number which will be provided as default number by the network for UNI B
TSP_GENNB_B	HEX_N	PIXIT Table B.3/3	Additional subscriber number located at SPB
TSP_NB_C_AVAIL	HEX_N	PIXIT Table B.3/4	Information made available for MCID by the network for UNI C (the only info the gateway has, e.g. trunk #)
TSP_NB_C_DEFAULT	HEX_N	PIXIT Table B.3/5	Subscriber number which will be provided as default number by the network for UNI C

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_NB_C_INCOMPLETE	HEX_N	PIXIT Table B.3/6	Subscriber number which will be provided as incomplete number by the network for UNI C
TSP_GENNB_C	HEX_N	PIXIT Table B.3/7	Additional subscriber number located at SPC
TSP_NB_A_MSN	HEX_N	PIXIT Table B.3/8	Multiple subscriber number located at SPA
TSP_NB_B_DDI	HEX_N	PIXIT Table B.3/9	Subscriber number with DDI located at SPB
TSP_NB_B_MSN	HEX_N	PIXIT Table B.3/10	Multiple subscriber number located at SPB
TSP_NB_C_NON_ISUP	HEX_N	PIXIT Table B.3/11	Subscriber number for which the call will be routed to signalling point C (SP C) e.g.R2
TSP_NB_A_SAMECUG_N OIA	HEX_N	PIXIT Table B.3/12	Subscriber number located at SPA belonging to same CUG as the calling party – without incoming access
TSP_NB_A_SAMECUG_IA	HEX_N	PIXIT Table B.3/13	Subscriber number located at SPA belonging to same CUG as the calling party – with incoming access
TSP_NB_A_OTHERCUG_N OIA	HEX_N	PIXIT Table B.3/14	Subscriber number located at SPA belonging to a different CUG as the calling party – without incoming access
TSP_NB_A_OTHERCUG_I A	HEX_N	PIXIT Table B.3/15	Subscriber number located at SPA belonging to a different CUG as the calling party – with incoming access
TSP_SUB_ADDRESS_LEN GTH	OCT_1	PIXIT Table B.4/1	Length of sub-address
TSP_SUB_A	OCT_N	PIXIT Table B.4/2	Sub-address of UNI at SPA (IUT)
TSP_SUB_B	OCT_N	PIXIT Table B.4/3	Sub-address of UNI at SPB (right side)
TSP_SUB_C	OCT_N	PIXIT Table B.4/4	Sub-address of UNI at SPC (left side)
TSP_SUB_D	OCT_N	PIXIT Table B.4/5	Sub-address of UNI at SPD (beyond right side SPB)
TSP_SUB_E	OCT_N	PIXIT Table B.4/6	Sub-address of UNI at SPE (beyond left side SPC)
TSP_CUGIC_NTWID	HEX_4	PIXIT Table B.4/7	Network identity of CUGIC e.g. '0490'H
TSP_CUGIC_NTWID_INT	HEX_4	PIXIT Table B.4/8	International network identity of CUGIC e.g. '0490'H
TSP_CUGIC_BINCODE	HEX_4	PIXIT Table B.4/9	Binary code of CUGIC
TSP_CUGIC_BINCODE_IN T	HEX_4	PIXIT Table B.4/10	International binary code of CUGIC
TSP_CTREF	OCT_1	PIXIT Table B.4/11	Call transfer reference

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSP_T_WAIT	INTEGER	PIXIT Table B.5/1	Wait for some event timer (max 30 s)
TSP_T_GUARD	INTEGER	PIXIT Table B.5/2	Guard timer for the test case (min 30 s)
TSP_TOL	INTEGER	PIXIT Table B.5/3	Tolerance for ISUP timers in percent
TSP_T_Local	INTEGER	PIXIT Table B.5/4	1 s – Internal timer for testing CCBS–T8
TSP_MAXB_CHANNEL	INTEGER	PIXIT Table B.6/1	Maximum number of B channels at the access side (needed for call waiting)
TSP_ORIG_ISDN_ACCESS	BIT_1	PIXIT Table B.6/2	Use of ISDN access at origination ('1' B) or non-ISDN access ('0' B)
TSP_DEST_ISDN_ACCESS	BIT_1	PIXIT Table B.6/3	Use of ISDN access at destination ('1' B) or non-ISDN access ('0' B)
TSP_INTERNATIONAL_CALL	BOOLEAN	PIXIT Table B.6/4	Set up an international call for TRUE; a national call for FALSE (FCI.InatCI)
TSP_INTERNATIONAL_CDPN	BOOLEAN	PIXIT Table B.6/5	Use an international Called party number for TRUE; a national (significant) number for FALSE (CdPN.NatAdrl)
TSP_PDC	INTEGER	PIXIT Table B.6/6	Propagation delay for incoming and outgoing route
TSP_PDC_X	INTEGER	PIXIT Table B.6/7	Propagation delay on incoming route in ms
TSP_PDC_D	INTEGER	PIXIT Table B.6/8	Propagation delay on outgoing route in ms
TSP_EC	BOOLEAN	PICS Basic call Table A.13/13	Support of the dynamic echo control procedure (usually 'No' → Q.767 echo control procedure)
TSP_PDDP	BOOLEAN	PICS Basic call Table A.13/11	Support of the propagation delay determination procedure
TSP_BASIC_CALL_13_11	BOOLEAN	Basic Call PICS A.13/11	Support of the propagation delay determination procedure
TSP_BASIC_CALL_13_13	BOOLEAN	Basic Call PICS A.13/13	Support of the dynamic echo control procedure (usually 'No' → Q.767 echo control procedure)
TSP_DSS1	BOOLEAN	–	TRUE in case the access system is DSS1
TSP_MANUAL	BOOLEAN	–	TRUE in case the access system is set and controlled manually
TSP_PSEUDO	BOOLEAN	–	TRUE in case the access system is a general one
Detailed Comments : @: National use			

Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
Support_CLIP	TSP_SUPPORT_CLIP	
Support_CLIR	TSP_SUPPORT_CLIR	
Support_COLP	TSP_SUPPORT_COLP	
Support_COLR	TSP_SUPPORT_COLR	
Support_TP	TSP_SUPPORT_TP	
Support_CUG	TSP_SUPPORT_CUG	
Support_SUB	TSP_SUPPORT_SUB	
Support_MCID	TSP_SUPPORT_MCID	
Support_CONF	TSP_SUPPORT_CONF	
Support_ECT	TSP_SUPPORT_ECT	
Support_CFB	TSP_SUPPORT_CFB	
Support_CFN	TSP_SUPPORT_CFN	
Support_CFU	TSP_SUPPORT_CFU	
Support_CD	TSP_SUPPORT_CD	
Support_HOLD	TSP_SUPPORT_HOLD	
Support_CW	TSP_SUPPORT_CW	
Support_CCBS	TSP_SUPPORT_CCBS	
Support_3PTY	TSP_SUPPORT_3PTY	
Support_CCN	TSP_SUPPORT_CCN	
DLE	TSP_DLE	
DLE_TSP_BASIC_CALL_13_11	TSP_DLE AND TSP_BASIC_CALL_13_11	
DLE_NTSP_CFN_CD_RET_CALL	TSP_DLE AND NOT TSP_CFN_CD_RET_CALL	
DLE_NTSP_CCBS_SUP_RETAIN	TSP_DLE AND NOT TSP_CCBS_SUP_RETAIN	
DLE_NTSP_COLP_DEL_COL	TSP_DLE AND NOT TSP_COLP_DEL_COL	
DLE_OINTERME	TSP_DLE OR (TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCIE)	
DLE_OINTERME_TSP_UUS1_IMPLICIT	(TSP_DLE OR (TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCIE)) AND TSP_UUS1_IMPLICIT	
DLE_OIntermE	TSP_DLE OR IntermE	
DLE_OIntermE_TSP_UUS1_IMPLICIT	(TSP_DLE OR IntermE) AND TSP_UUS1_IMPLICIT	
DLE_PICS12_3	TSP_DLE AND TSP_MCID_SUP_REG	
DLE_PICS9_7	TSP_DLE AND TSP_UUS_DELIVER_UUI	
DLE_TSP_MCID_SUP_REG	TSP_DLE AND TSP_MCID_SUP_REG	
DLE_TSP_CDIV_MAX_5	TSP_DLE AND TSP_CDIV_MAX_5	
DLE_TSP_CDIV_MAX_5_NTSP_CFN_CD_RET_CALL	TSP_DLE AND TSP_CDIV_MAX_5 AND NOT TSP_CFN_CD_RET_CALL	
DLE_TSP_CDIV_MAX_5_TSP_CFN_CD_RET_CALL	TSP_DLE AND TSP_CDIV_MAX_5 AND TSP_CFN_CD_RET_CALL	
DLE_TSP_CFN_CD_RET_CALL	TSP_DLE AND TSP_CFN_CD_RET_CALL	

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Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
DLE_TSP_CFNCR_CD_SUP_CALL	TSP_DLE AND TSP_CFNCR_CD_SUP_CALL	
DLE_TSP_CCBS_SUP_RETAIN	TSP_DLE AND TSP_CCBS_SUP_RETAIN	
DLE_TSP_CCBS_SUP_5QUE	TSP_DLE AND TSP_CCBS_SUP_5QUE	
DLE_TSP_CCBS_FORWARD	TSP_DLE AND TSP_CCBS_FORWARD	
DLE_TSP_SUPPORT_CLIP	TSP_DLE AND TSP_SUPPORT_CLIP	
DLE_TSP_SUPPORT_CFB_OTSP_S UPPORT_CFNCR_OTSP_SUPPORT_C FU_OTSP_SUPPORT_CD	TSP_DLE AND (TSP_SUPPORT_CFB OR TSP_SUPPORT_CFNCR OR TSP_SUPPORT_CFU OR TSP_SUPPORT_CD)	
DLE_TSP_SUPPORT_COLP	TSP_DLE AND TSP_SUPPORT_COLP	
DLE_TSP_SUPPORT_CUG	TSP_DLE AND TSP_SUPPORT_CUG	
DLE_TSP_SUPPORT_SUB	TSP_DLE AND TSP_SUPPORT_SUB	
DLE_TSP_SUPPORT_MCID	TSP_DLE AND TSP_SUPPORT_MCID	
DLE_TSP_UUS_UUS2_OTSP_UUS_ UUS3	TSP_DLE AND (TSP_UUS_UUS2 OR TSP_UUS_UUS3)	
GATEWAY_NTSP_SUPPORT_TP_TSP _NS_TP_SUS	(TSP_OUTIE OR TSP_INCR) AND NOT TSP_SUPPORT_TP AND TSP_NS_TP_SUS	
Gateway	TSP_OUTIE OR TSP_INCR	
Gateway_TSP_CUG_CODE	Gateway AND TSP_CUG_CODE	
Gateway_TSP_ECT_OMIT_CTN	Gateway AND TSP_ECT_OMIT_CTN	
Gateway_TSP_UUS_REJ_EXP	Gateway AND TSP_UUS_REJ_EXP	
ITE	TSP_ITE	
IWORKE	TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCR	
IWORKE_TSP_ECT_SUP_LOP	(TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCR) AND TSP_ECT_SUP_LOP	
IWorkE	TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCR	
IWorkE_TSP_HOLD_SUPPLY_REMO TE	(TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCR) AND TSP_HOLD_SUPPLY_REMOTE	
Incr	TSP_INCR	
Incr_NTSP_SUPPORT_CUG_TSP_N S_CUG_REJ	TSP_INCR AND NOT TSP_SUPPORT_CUG AND TSP_NS_CUG_REJ	
Incr_TSP_MCID_MODIFY_RES	TSP_INCR AND TSP_MCID_MODIFY_RES	
Incr_TSP_CDIV_OMIT_RNUM	TSP_INCR AND TSP_CDIV_OMIT_RNUM	
Incr_TSP_CLIP_ADD_PREFIX	TSP_INCR AND TSP_CLIP_ADD_PREFIX	
Incr_TSP_CLIP_SUP_NAVAIL	TSP_INCR AND TSP_CLIP_SUP_NAVAIL	
Incr_TSP_COLP_OMIT_CON	TSP_INCR AND TSP_COLP_OMIT_CON	

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Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
InclE_TSP_COLP_OMIT_GEN	TSP_INClE AND TSP_COLP_OMIT_GEN	
InclE_TSP_COLP_REM_COL	TSP_INClE AND TSP_COLP_REM_COL	
InclE_TSP_COLR_DIS_CON	TSP_INClE AND TSP_COLR_DIS_CON	
InclE_TSP_COLR_DIS_GEN	TSP_INClE AND TSP_COLR_DIS_GEN	
InclE_TSP_COLR_REM_COL	TSP_INClE AND TSP_COLR_REM_COL	
IntermE	TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INClE	
IntermE_ODLE	IntermE OR DLE	
IntermE_ODLE_TSP_CONF_NOTIFY	(IntermE OR DLE) AND TSP_CONF_NOTIFY	
IntermE_TSP_ECT_LOOP_PREV	IntermE AND TSP_ECT_LOOP_PREV	
Local_BCALLTSP_ECT_CALL_TRNS1 _BCALLTSP_ECT_CALL_TRNS3	(TSP_OLE OR TSP_DLE) AND TSP_BASIC_CALL_13_11 AND TSP_BASIC_CALL_13_13	
Local_TSP_ECT_CALL_TRNS	(TSP_OLE OR TSP_DLE) AND TSP_ECT_CALL_TRNS	
Local_TSP_ECT_LOOP_PREV	(TSP_OLE OR TSP_DLE) AND TSP_ECT_LOOP_PREV	
Local_TSP_ECT_LOOP_PREV_TSP_ ECT_TIME_EXPIRY	(TSP_OLE OR TSP_DLE) AND TSP_ECT_LOOP_PREV AND TSP_ECT_TIME_EXPIRY	
Local_TSP_ECT_LOOP_PREV_TSP_ ECT_COMPL_TIME_EXPIRY	(TSP_OLE OR TSP_DLE) AND TSP_ECT_LOOP_PREV AND TSP_ECT_COMPL_TIME_EXPIRY	
Local_TSP_ECT_LOOP_PREV_TSP_ ECT_REJ_LOP	(TSP_OLE OR TSP_DLE) AND TSP_ECT_LOOP_PREV AND TSP_ECT_REJ_LOP	
Local_TSP_ECT_LOOP_PREV_TSP_ ECT_COMP_LOP	(TSP_OLE OR TSP_DLE) AND TSP_ECT_LOOP_PREV AND TSP_ECT_COMP_LOP	
Local_TSP_SIM_SERAC	(TSP_OLE OR TSP_DLE) AND TSP_SIM_SERAC	
Local_TSP_SUPPORT_HOLD	(TSP_OLE OR TSP_DLE) AND TSP_SUPPORT_HOLD	
Local_TSP_UUS1_EXPLICIT_OTSP_ UUS_UUS2	(TSP_OLE OR TSP_DLE) AND (TSP_UUS1_EXPLICIT OR TSP_UUS_UUS2)	
Local_TSP_UUS1_EXPLICIT_OTSP_ UUS_UUS3	(TSP_OLE OR TSP_DLE) AND (TSP_UUS1_EXPLICIT OR TSP_UUS_UUS3)	
Local_TSP_UUS_UUS2_OTSP_UUS_ UUS3	(TSP_OLE OR TSP_DLE) AND (TSP_UUS_UUS2 OR TSP_UUS_UUS3)	
Local_TSP_UUS_UUS3	(TSP_OLE OR TSP_DLE) AND TSP_UUS_UUS3	
Local	TSP_OLE OR TSP_DLE	
Local_TSP_BASIC_CALL_13_13	Local AND TSP_BASIC_CALL_13_13	
Local_TSP_CONF_NOTIFY	Local AND TSP_CONF_NOTIFY	

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Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
Local_TSP_CONF_MAX_CONFEREE	Local AND TSP_CONF_MAX_CONFEREE	
Local_TSP_CCBS_SUP_RETAIN	Local AND TSP_CCBS_SUP_RETAIN	
Local_TSP_CCBS_SUP_SUPER	Local AND TSP_CCBS_SUP_SUPER	
NTE	TSP_NTE	
OLE	TSP_OLE	
OLE_NTSP_SUPPORT_MCID	TSP_OLE AND NOT TSP_SUPPORT_MCID	
OLE_OGATEWAY	TSP_OLE OR (TSP_OUTIE OR TSP_INCIE)	
OLE_OGateway	TSP_OLE OR Gateway	
OLE_OINTERME	TSP_OLE OR (TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCIE)	
OLE_OINTERME_TSP_UUS1_IMPLICIT	(TSP_OLE OR (TSP_NTE OR TSP_OUTIE OR TSP_ITE OR TSP_INCIE)) AND TSP_UUS1_IMPLICIT	
OLE_OIntermE	TSP_OLE OR IntermE	
OLE_OIntermE_TSP_UUS1_IMPLICIT	(TSP_OLE OR IntermE) AND TSP_UUS1_IMPLICIT	
OLE_TSP_MCID_PRO_SUB	TSP_OLE AND TSP_MCID_PRO_SUB	
OLE_TSP_HOLD_SUP_SOON	TSP_OLE AND TSP_HOLD_SUP_SOON	
OLE_TSP_HOLD_SUP_AFTER	TSP_OLE AND TSP_HOLD_SUP_AFTER	
OLE_TSP_CCBS_SUP_MAX_5	TSP_OLE AND TSP_CCBS_SUP_MAX_5	
OLE_TSP_CCBS_INC_CGPN	TSP_OLE AND TSP_CCBS_INC_CGPN	
OLE_TSP_CCBS_NEW_REQUEST	TSP_OLE AND TSP_CCBS_NEW_REQUEST	
OLE_TSP_CCBS_REJ_SECOND	TSP_OLE AND TSP_CCBS_REJ_SECOND	
OLE_TSP_CCBS_INITIATE	TSP_OLE AND TSP_CCBS_INITIATE	
OLE_TSP_GEN_NUMTR	TSP_OLE AND TSP_GEN_NUMTR	
OLE_TSP_SUPPORT_SUB	TSP_OLE AND TSP_SUPPORT_SUB	
OLE_TSP_UUS_PAR_32	TSP_OLE AND TSP_UUS_PAR_32	
OLE_TSP_UUS1_IMPLICIT_OTSP_UUS_UUS2_OTSP_UUS_UUS3	TSP_OLE AND (TSP_UUS1_IMPLICIT OR TSP_UUS_UUS2 OR TSP_UUS_UUS3)	
OutIE	TSP_OUTIE	
OutIE_NTSP_MCID_OMIT_CGPN	TSP_OUTIE AND NOT TSP_MCID_OMIT_CGPN	
OutIE_NTSP_SUPPORT_MCID_TSP_NS_MCID_IRS	TSP_OUTIE AND NOT TSP_SUPPORT_MCID AND TSP_NS_MCID_IRS	
OutIE_TSP_CLIP_OMIT_CGPN	TSP_OUTIE AND TSP_CLIP_OMIT_CGPN	
OutIE_TSP_CLIP_OMIT_GEN	TSP_OUTIE AND TSP_CLIP_OMIT_GEN	

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Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
OutIE_TSP_CLIR_DIS_CGPN	TSP_OUTIE AND TSP_CLIR_DIS_CGPN	
OutIE_TSP_CLIR_DIS_GEN	TSP_OUTIE AND TSP_CLIR_DIS_GEN	
OutIE_TSP_COLP_ADD_PRE_CON	TSP_OUTIE AND TSP_COLP_ADD_PRE_CON	
Transit	TSP_NTE OR TSP_ITE	
Detailed Comments :		

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
TSC_ADD_TSC_CON_B_NATIONAL	HEX_N	'10777888'H	Additional National Connected Number
TSC_ADD_TSC_CON_B_OWN_COUNTRY_CODE_WITHOUT_PREFIX	HEX_N	'3110777888'H	Additional Connected number with own country code
TSC_CDIV_FINAL_CALLED_NUMBER	HEX_N	'009911888888'H	CallDiversion final number with country code '99' area code '11' and exchange code '888'
TSC_CDIV_FINAL_CALLED_NUMBER_NATIONAL	HEX_N	'11888888'H	CallDiversion final number with area code '11' and exchange code '888'
TSC_CDIV_ORIGINAL_CALLED_NUMBER	HEX_N	'009911555555'H	CallDiversion originally called number with country code '99' area code '11' and exchange code '555'
TSC_CDIV_ORIGINAL_CALLED_NUMBER_INTERNATIONAL_FOREIGN_CC	HEX_N	'9111555555'H	CallDiversion originally called number with area code '11' and exchange code '555' and foreign CC ='91'
TSC_CDIV_ORIGINAL_CALLED_NUMBER_INTERNATIONAL_OWN_CC	HEX_N	'3111555555'H	CallDiversion originally called number with area code '11' and exchange code '555' and own CC ='31'
TSC_CDIV_ORIGINAL_CALLED_NUMBER_INTERNATIONAL_WITH_PREFIX	HEX_N	'009111555555'H	CallDiversion originally called number with area code '11' and exchange code '555' and with prefix
TSC_CDIV_ORIGINAL_CALLED_NUMBER_NATIONAL	HEX_N	'11555555'H	CallDiversion originally called number with area code '11' and exchange code '555'
TSC_CDIV_REDIRECTING_NUMBER	HEX_N	'009911555666'H	CallDiversion redirecting number with country code '99' area code '11' and exchange code '555'
TSC_CDIV_REDIRECTING_NUMBER_INTERNATIONAL	HEX_N	'9111555666'H	CallDiversion redirecting number with area code '11' and exchange code '555' and country code '91'
TSC_CDIV_REDIRECTING_NUMBER_INTERNATIONAL_FOREIGN_CC	HEX_N	'9111555666'H	CallDiversion redirecting number with area code '11' and exchange code '555', FOREIGN COUNTRY CODE 91.
TSC_CDIV_REDIRECTING_NUMBER_INTERNATIONAL_OWN_CC	HEX_N	'3111555666'H	CallDiversion redirecting number with area code '11' and exchange code '555', OWN COUNTRY CODE 31
TSC_CDIV_REDIRECTING_NUMBER_INTERNATIONAL_WITH_PREFIX	HEX_N	'009111555666'H	CallDiversion redirecting number with area code '11' and exchange code '555', FOREIGN COUNTRY CODE 91, prefix '00'
TSC_CDIV_REDIRECTING_NUMBER_NATIONAL	HEX_N	'11555666'H	CallDiversion redirecting number with area code '11' and exchange code '555'

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
TSC_CGPN_A	HEX_N	'001400123456'H	Subscriber number for which the call will be routed to signalling point A (SP A) PIXIT Table B.2/2
TSC_CGPN_A_INTERNATIONAL	HEX_N	'10123456'H	National Calling party number
TSC_CGPN_A_INTERNATIONAL_WITHOUT_PREFIX	HEX_N	'3110123456'H	International calling party number without prefix '00'
TSC_CGPN_A_OWN_COUNTRY_CODE	HEX_N	'003110123456'H	Calling party number with own country code
TSC_CGPN_A_OWN_COUNTRY_CODE_WITHOUT_PREFIX	HEX_N	'3110123456'H	Calling party number with own country code without prefix
TSC_CGPN_B	HEX_N	'001500123456'H	Subscriber number for which the call will be routed to signalling point A (SP A) PIXIT Table B.2/2
TSC_CON_B_INTERNATIONAL	HEX_N	'10654321'H	International Connected Number
TSC_CON_B_INTERNATIONAL_WITHOUT_PREFIX	HEX_N	'3110654321'H	International Connected Number (own CC coded as 31)
TSC_CON_B_NATIONAL	HEX_N	'10654321'H	National Connected Number
TSC_CON_B_OWN_COUNTRY_CODE	HEX_N	'003110654321'H	Connected number with own country code
TSC_CON_B_OWN_COUNTRY_CODE_WITHOUT_PREFIX	HEX_N	'3110654321'H	Connected number with own country code
TSC_ReducingNumberFor eignCC	HEX_N	'611234567890'H	NOTE: Number is not correct!! This is a redirecting number with a country code equal to foreign country code.
TSC_ReducingNumberFor eignCC_prefix	HEX_N	'00611234567890'H	NOTE: Number is not correct!! This redirecting number should be equal to TSC_ReducingNumberFor eignCC which goes through the exchange and acquires a prefix.
TSC_CPN_INCO_B_FILLER_CORRECT	HEXSTRING	'117160113450'H	Called Party Number sent to the incoming side Route
TSC_CPN_INCO_B_PART2	HEXSTRING	'50'H	Called Party Number sent to the incoming side Route (used in SAM)
TSC_CPN_INCO_B	HEXSTRING	'001501123456'H	Called Party Number sent to the incoming side Route
TSC_CPN_OUTG	HEXSTRING	'123456'H	Called Party Number received on the outgoing side Route
TSC_CT_NUMBER_A	HEXSTRING	'10112233'H	CallTransfer Number sent from A
TSC_INTERNATIONAL_CT_NUMBER_A	HEXSTRING	'3110112233'H	International CallTransfer Number sent from A

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
TSC_INTERNATIONAL_CT_NUMBER_A_OWN_CC	HEXSTRING	'3110112233'H	International CallTransfer Number sent from A with own CC as 31
TSC_BUG_AdrPresResInd	BIT_2	'01'B	BUG in exchange. Should be set to Address not available, but due to bug set to presentation restricted
TSC_CUGICcontents_international	OCT_4	'00010310'O	Closed Used Group Interlock Code Identity including binary code and international network identity
TSC_CUGICcontents_national	OCT_4	'00010310'O	Closed Used Group Interlock Code Identity including binary code and national network identity
TSC_EOP	OCT_1	'00'O	End of optional parameters
TSC_CCBSPParam	Parameter_type	'01001011'B	CCBS parameter
TSC_MCIDReqInd	Parameter_type	'00111011'B	mcid request indicator
TSC_MCIDRespInd	Parameter_type	'00111100'B	mcid response indicator
TSC_SCFid	Parameter_type	'01100110'B	scf id
TSC_SUSRESInd	Parameter_type	'00100010'B	Suspend/Resume indicators
TSC_accessDeliveryInfo	Parameter_type	'00101110'B	access delivery information
TSC_accessTransport	Parameter_type	'00000011'B	access transport
TSC_addChargeInfo	Parameter_type	'11111010'B	Additional Charging Information
TSC_addRoutInfo	Parameter_type	'11111011'B	Additional Routing Information
TSC_autCongLevel	Parameter_type	'00100111'B	automatic congestion level
TSC_backwardCallInd	Parameter_type	'00010001'B	backward call indicators
TSC_backwardGVNS	Parameter_type	'01001101'B	backward GVNS
TSC_cUGInterlockCode	Parameter_type	'00011010'B	glosed user group interlock code
TSC_callDiversionInfo	Parameter_type	'00110110'B	call diversion information
TSC_callDiversionTreatmentInd	Parameter_type	'01101100'B	call diversion treatment indicators
TSC_callHistoryInfo	Parameter_type	'00101101'B	call history information
TSC_callOfferingTreatmentInd	Parameter_type	'01101101'B	call offering treatment indicators
TSC_callReference	Parameter_type	'00000001'B	call reference
TSC_callTransferNumber	Parameter_type	'01000101'B	call transfer number
TSC_callTransferReference	Parameter_type	'01000011'B	call transfer reference
TSC_callTransferTreatmentInd	Parameter_type	'01101110'B	call transfer treatment indicators
TSC_calledPN	Parameter_type	'00000100'B	called party number
TSC_callingPartyCat	Parameter_type	'00001001'B	calling party's category
TSC_callingPartyNum	Parameter_type	'00001010'B	calling party number
TSC_causeInd	Parameter_type	'00010010'B	causeInd
TSC_circuitStateInd	Parameter_type	'00100110'B	circuit state indicator
TSC_conferenceTreatmentInd	Parameter_type	'01110000'B	conference treatment indicators

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
TSC_connectedNum	Parameter_type	'00100001'B	connected number
TSC_connectionRequest	Parameter_type	'00001101'B	connection request
TSC_continuityInd	Parameter_type	'00010000'B	continuity indicators
TSC_correlationId	Parameter_type	'01100101'B	correlation id
TSC_displayInfo	Parameter_type	'01101111'B	display info
TSC_distrDynRoutInd	Parameter_type	'11111000'B	distributed dynamic routing indicators
TSC_echoControlInfo	Parameter_type	'00110111'B	echo control information
TSC_eventInfo	Parameter_type	'00100100'B	event information
TSC_facilityInd	Parameter_type	'00011000'B	facility indicator
TSC_forwardCallInd	Parameter_type	'00000111'B	forward call indicators
TSC_forwardGVNS	Parameter_type	'01001100'B	forward gvns
TSC_freePhoneInd	Parameter_type	'01000001'B	freephone indicators
TSC_genericDigits	Parameter_type	'10111111'B	generic digits
TSC_genericNotificationInd	Parameter_type	'00101100'B	generic notification
TSC_genericNum	Parameter_type	'11000000'B	generic number
TSC_genericReference	Parameter_type	'01000010'B	generic reference
TSC_infoInd	Parameter_type	'00001111'B	information indicators
TSC_infoRequestInd	Parameter_type	'00001110'B	information request indicators
TSC_locationNum	Parameter_type	'00111111'B	location number
TSC_loopPreventionInd	Parameter_type	'01000100'B	loop prevention indicators
TSC_mLPPprecedence	Parameter_type	'00111010'B	MLPP precedence
TSC_messageCompatInfo	Parameter_type	'00111000'B	message compatibility information
TSC_meterPulseInd	Parameter_type	'11111110'B	Meter Pulse Indicator
TSC_natureOfConnInd	Parameter_type	'00000110'B	nature of connection indicators
TSC_netwCallRef	Parameter_type	'11110100'B	network specific facilities
TSC_netwSpecificFacility	Parameter_type	'00101111'B	network specific facility
TSC_optBackwardCallInd	Parameter_type	'00101001'B	optional backward call indicators
TSC_optForwardCallInd	Parameter_type	'00001000'B	optional forward call indicators
TSC_origISCPPointCode	Parameter_type	'00101011'B	origination ISC point code
TSC_originalCalledNum	Parameter_type	'00101000'B	original called number
TSC_parameterCompatInfo	Parameter_type	'00111001'B	parameter compatibility information
TSC_propDelayCounter	Parameter_type	'00110001'B	propagation delay counter
TSC_rangeAndStatus	Parameter_type	'00010110'B	range and status
TSC_redirectNumRestriction	Parameter_type	'01000000'B	redirection number restriction
TSC_redirectingNum	Parameter_type	'00001011'B	redirecting number
TSC_redirectionInfo	Parameter_type	'00010011'B	redirection information
TSC_redirectionNum	Parameter_type	'00001100'B	redirection number
TSC_remoteOperations	Parameter_type	'00110010'B	remote operations
TSC_routeIdentity	Parameter_type	'11111100'B	route identity
TSC_serviceActivation	Parameter_type	'00110011'B	service activation
TSC_sigPointCode	Parameter_type	'00101110'B	signalling point code

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
TSC_subsequentNum	Parameter_type	'00000101'B	subsequent number
TSC_tariffIndicator	Parameter_type	'11111101'B	Tariff Indicator
TSC_transMediumReq	Parameter_type	'00000010'B	transmission medium requirement
TSC_transMediumReqPrime	Parameter_type	'00111110'B	transmission medium requirement prime
TSC_transMediumUsed	Parameter_type	'00110101'B	transmission medium used
TSC_transNetSel	Parameter_type	'00100011'B	transit network selection
TSC_unknown	Parameter_type	'10101010'B	Unknown_parameter
TSC_userServiceInfo	Parameter_type	'00011101'B	user service information
TSC_userServiceInfoPrime	Parameter_type	'00110000'B	user service information prime
TSC_userTeleServiceInfo	Parameter_type	'00110100'B	user teleservice information
TSC_userToUserInd	Parameter_type	'00101010'B	user-to-user indicators
TSC_userToUserInfo	Parameter_type	'00100000'B	user-to-user information
TSC_msgACM	BIT_8	'00000110'B	hex: 06
TSC_msgANM	BIT_8	'00001001'B	hex: 09
TSC_msgBLA	BIT_8	'00010101'B	hex: 15
TSC_msgBLO	BIT_8	'00010011'B	hex: 13
TSC_msgCCR	BIT_8	'00010001'B	hex: 11
TSC_msgCFN	BIT_8	'00101111'B	hex: 2F
TSC_msgCGB	BIT_8	'00011000'B	hex: 18
TSC_msgCGBA	BIT_8	'00011010'B	hex: 1A
TSC_msgCGU	BIT_8	'00011001'B	hex: 19
TSC_msgCGUA	BIT_8	'00011011'B	hex: 1B
TSC_msgCON	BIT_8	'00000111'B	hex: 07
TSC_msgCOT	BIT_8	'00000101'B	hex: 05
TSC_msgCPG	BIT_8	'00101100'B	hex: 2C
TSC_msgCQM	BIT_8	'00101010'B	hex: 2A
TSC_msgCQR	BIT_8	'00101011'B	hex: 2B
TSC_msgCRG	BIT_8	'00110001'B	hex: 31
TSC_msgFAA	BIT_8	'00100000'B	hex: 20
TSC_msgFAC	BIT_8	'00110011'B	hex: 33
TSC_msgFAR	BIT_8	'00011111'B	hex: 1F
TSC_msgFOT	BIT_8	'00001000'B	hex: 08
TSC_msgFRJ	BIT_8	'00100001'B	hex: 21
TSC_msgGRA	BIT_8	'00101001'B	hex: 29
TSC_msgGRS	BIT_8	'00010111'B	hex: 17
TSC_msgIAM	BIT_8	'00000001'B	hex: 01
TSC_msgIDR	BIT_8	'00110110'B	hex: 36
TSC_msgINF	BIT_8	'00000100'B	hex: 04
TSC_msgINR	BIT_8	'00000011'B	hex: 03
TSC_msgIRS	BIT_8	'00110111'B	hex: 37
TSC_msgLOP	BIT_8	'01000000'B	hex: 40
TSC_msgNRM	BIT_8	'00110010'B	hex: 32
TSC_msgOPQ	BIT_8	'11111110'B	hex: FE
TSC_msgOPR	BIT_8	'11111111'B	hex: FF

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
TSC_msgREL	BIT_8	'00001100'B	hex: 0C
TSC_msgRES	BIT_8	'00001110'B	hex: 0E
TSC_msgRLC	BIT_8	'00010000'B	hex: 10
TSC_msgRSC	BIT_8	'00010010'B	hex: 12
TSC_msgSAM	BIT_8	'00000010'B	hex: 02
TSC_msgSCB	BIT_8	'11111001'B	hex: F9
TSC_msgSGM	BIT_8	'00111000'B	hex: 38
TSC_msgSUS	BIT_8	'00001101'B	hex: 0D
TSC_msgUBA	BIT_8	'00010110'B	hex: 16
TSC_msgUBL	BIT_8	'00010100'B	hex: 14
TSC_msgUCIC	BIT_8	'00101110'B	hex: 1E
TSC_msgUPA	BIT_8	'00110101'B	hex: 35
TSC_msgUPT	BIT_8	'00110100'B	hex: 34
TSC_msgUSR	BIT_8	'00101101'B	hex: 2D
TSC_ConfEst_NID	OCTETSTRING	'C2'O	Notification description coded as "conference established".
TSC_Isolated_NID	OCTETSTRING	'C5'O	Notification description coded as "Isolated".
TSC_OtherPtyAdded_NID	OCTETSTRING	'C4'O	Notification description coded as "other party added".
TSC_OtherPtyDisconnected_NID	OCTETSTRING	'CA'O	Notification description coded as "other party disconnected".
TSC_Reattached_NID	OCTETSTRING	'C6'O	Notification description coded as "Reattached".
TSC_UUI_104	OCTETSTRING	'48616C6C646F722C204E6F726265727420616E64204D6972636561207769736820796F75206120676F6F642074657374696E672E'O	UUIInformation
TSC_UUI_32	OCTETSTRING	'48616C6C646F722C204E6F7262657274'O	UUIInformation
TSC_BUSY	BOOLEAN	FALSE	
TSC_FREE	BOOLEAN	TRUE	
TSC_T39	INTEGER	15	the value of T39min or T39max
TSC_cCBSOID	OID	{ccitt identified_organization etsi(0) 359 operations_and_errors(1)}	
TSC_eCTOID	OID	{ccitt identified_organization etsi(0) 369 operations_and_errors(1)}	Object identifier
Detailed Comments :			

Test Suite Variable Declarations			
Variable Name	Type	Value	Comments
TSV_CCBSREF	CCBSReference	128	CCBS Reference value (DSS1)
TSV_BCHNUM1	BIT7OR8		B-channel for call, BITSTRING[7..8] for TSV_CREF1 (DSS1)
TSV_BCHNUM2	BIT7OR8		B-channel for call, BITSTRING[7..8] for TSV_CREF2 (DSS1)
TSV_BCHNUMREL	BIT7OR8		B-channel for call, BITSTRING[7..8] for channel to be released in CW (DSS1)
TSV_CREF1	BIT7OR15		Call Ref. value (DSS1)
TSV_CREF2	BIT7OR15		Call Ref. value (DSS1)
TSV_CREF3	BIT7OR15		Call Ref. value (DSS1)
TSV_CREFREL	BIT7OR15		Call Ref. value for channel to be released in CW (DSS1)
TSV_GLOBCREF	BIT7OR15		Call Ref. value (DSS1)
TSV_CRLLENGTH	CR_LENGTH_TYPE		Call Reference length value (1..2) (DSS1)
TSV_BASIC	BOOLEAN		TRUE -> basic access FALSE -> primary rate access (DSS1)
TSV_BCAPL	OCTETSTRING		Length of Bearer capability (DSS1)
TSV_BCAPV	OCTETSTRING		Bearer capability value (DSS1)
TSV_HLCL	OCTETSTRING		Length of High layer compatibility (DSS1)
TSV_HLCV	OCTETSTRING		High layer compatibility value (DSS1)
TSV_LLCL	OCTETSTRING		Length of Low layer compatibility (DSS1)
TSV_LLCV	OCTETSTRING		Low layer compatibility value (DSS1)
TSV_CDPNOCTET3	OCTETSTRING		octet 3 of the called party number, type of number and numbering plan identifier (DSS1)
Detailed Comments :			

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_any_msg	BOOLEAN	TRUE	Used for selecting behaviour in mismatched receiving situations
TCV_cic	BIT_12		received CIC storage
TCV_A_cic	BIT_12	TSP_CIC_L	received CIC storage
TCV_A_cic2	BIT_12	TSP_CIC_L	received CIC storage
TCV_B_cic	BIT_12	TSP_CIC_R	received CIC storage
TCV_A_help	BITSTRING		help variable
TCV_B_help	BITSTRING		help variable
TCV_cref	BIT7OR15		Call Ref. value (DSS1)
TCV_flag_dss1	INTEGER	0	Controls the call initiation (DSS1)
TCV_flag_dss1_2	INTEGER	0	Controls the call initiation (DSS1)
TCV_count0	INTEGER	0	counter 0
TCV_count1	INTEGER	0	counter 0
TCV_count2	INTEGER	0	counter 0
TCV_inv_id	InvokeIDType		Invoke id. value (DSS1)
TCV_recall_mode	RecallMode		(DSS1)
TCV_cug_index	INTEGER	1	CUG index (DSS1)
TCV_timer_running	BOOLEAN		(DSS1)
TCV_free_channel	INTEGER	2	Length of the called party subaddress number (DSS1)
TCV_call_link_id	CallLinkIDType		CallLinkageID value (DSS1)
TCV_conf_size_id	ConfSize	0	used to store the ConfSize Id (DSS1)
TCV_conf_id	ConferenceId	0	used to store the Conference Id (DSS1)
TCV_net_conf_size	ConfSize	2	Conference size supported by the network (maximum) (DSS1)
TCV_party_id1	PartyId	0	used to store the first Party Id (DSS1)
TCV_party_id2	PartyId	0	used to store the 2nd Party Id (DSS1)
Detailed Comments :			

PCO Type Declarations		
PCO Type	Role	Comments
ACCESS_PCO	LT	Access link A subscriber
ISUP_PCO	LT	Signalling link for A and B subscribers
MAINT_PCO	UT	PCO for main test component
PSTN_PCO	LT	PSTN link
TCAP_PCO	LT	PCO for TCAP messages
NON_ISUP_PCO	LT	Non ISUP PCO
SAP	LT	Service Access Point
Detailed Comments :		

PCO Declarations			
PCO Name	PCO Type	Role	Comments
A_PCO	ISUP_PCO	LT	Signalling link A subscriber
B_PCO	ISUP_PCO	LT	Signalling link B subscriber
A_ACCESS_PCO	ACCESS_PCO	LT	Access link A subscriber
M_PCO	MAINT_PCO	UT	PCO for main test component
A_PSTN_PCO	PSTN_PCO	LT	PSTN link
A_SCCP_PCO	TCAP_PCO	LT	SCCP link for TCAP messages
A_NON_ISUP_PCO	NON_ISUP_PCO	LT	Non ISUP PCO
Detailed Comments :			

Coordination Point Declarations	
CP Name	Comments
A_CP	CP between MTC and A_ISUP_PTC
A_ACCESS_CP	CP between MTC and A_ACCESS_PTC
B_CP	CP between MTC and B_ISUP_PTC
Detailed Comments :	

Timer Declarations			
Timer Name	Duration	Unit	Comments
T_manual		s	Timer for manual message send
T2	3	min	waiting for RES (user), Value range: Q.764: 3min, FS: 3min
T7max	31	s	waiting for ACM or CON, Value range: Q.764: 20–30s, FS: 20–30s
T7min	19	s	waiting for ACM or CON, Value range: Q.764: 20–30s, FS: 20–30s
T9max	4	min	waiting for ANM, Value range: FS: 1–4min
T9min	1	min	waiting for ANM, Value range: FS: 1–4min
TAC	32	s	any LT is waiting for IUT initiated test event (2) (timer used for test synchronisation)
TCFNR_max	60	s	60s timer for Call Forwarding No Reply Test Case 12_28_b
TCFNR_min	30	s	30s timer for Call Forwarding No Reply Test Case 12_28_b
TNOAC	2	s	any LT is controlling IUT inactivity (timer used for test synchronisation)
T_10s	10	s	10s timer
T_A_STEP	20	s	test step execution control timer
T_A_STEP1	90	s	test step execution control timer
T_B_STEP	20	s	test step execution control timer
T_WAIT	1	s	local timer
T_ECTmin	30	s	
T_ECTmax	60	s	
T_CCBS_T1	20	s	CCBS Retention timer
T_CCBS_T2	3	s	CCBS request operation timer
T_CCBS_T3	30	min	CCBS service duration timer
T_CCBS_T4	20	s	CCBS recall timer
T_CCBS_T7	60	min	CCBS service supervision timer
T_CCBS_T8	15	s	Destination idle guard timer
T_CCBS_T9	20+3	s	CCBS recall timer
T_CCBS_T	2	min	
T_CCBS_T_SUP	60	min	CCBS supervision timer
Detailed Comments :			

Test Component Declarations				
Component Name	Component Role	Nr PCOs	Nr CPs	Comments
A_ISUP_PTC	PTC	1	1	Paralell test component. Used to observe the IUT on the left side – ISUP
B_ISUP_PTC	PTC	1	1	Paralell test component. Used to observe the IUT on the right side – ISUP
B_ISUP_PTC2	PTC	2	1	Paralell test component. Used to observe the IUT on the right side – ISUP
A_ACCESS_PTC	PTC	1	1	Paralell test component. Used to observe the IUT on the left side – DSS1
MTC1	MTC	1	2	Master test component.
MTC2	MTC	1	3	Master test component.
Detailed Comments :				

Test Components Configuration Declaration			
Configuration Name : MTC_and_ISUP_and_NON_ISUP_PTCs			
Comments :			
Components Used	PCOs Used	CPs Used	Comments
MTC1 A_ISUP_PTC B_ISUP_PTC	M_PCO A_NON_ISUP_PCO B_PCO	A_CP,B_CP A_CP B_CP	
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : MTC_and_two_ISUP_and_access_PTCs			
Comments :			
Components Used	PCOs Used	CPs Used	Comments
MTC2 A_ACCESS_PTC A_ISUP_PTC B_ISUP_PTC	M_PCO A_ACCESS_PCO A_PCO B_PCO	A_ACCESS_CP,A_CP,B_C P A_ACCESS_CP A_CP B_CP	
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : MTC_and_ISUP_and_access_PTCs			
Comments :			
Components Used	PCOs Used	CPs Used	Comments
MTC1 A_ACCESS_PTC B_ISUP_PTC	M_PCO A_ACCESS_PCO B_PCO	A_ACCESS_CP,B_CP A_ACCESS_CP B_CP	
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : MTC_and_ISUP_and_PSTN_PTCs			
Comments :			
Components Used	PCOs Used	CPs Used	Comments
MTC1 A_ISUP_PTC B_ISUP_PTC	M_PCO A_PSTN_PCO B_PCO	A_CP,B_CP A_CP B_CP	
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : MTC_and_two_ISUP_PTCs			
Comments :			
Components Used	PCOs Used	CPs Used	Comments
MTC1	M_PCO	A_CP,B_CP	
A_ISUP_PTC	A_PCO	A_CP	
B_ISUP_PTC	B_PCO	B_CP	
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : MTC_and_ISUP_TCAP_and_access_PTCs			
Comments :			
Components Used	PCOs Used	CPs Used	Comments
MTC1	M_PCO	A_ACCESS_CP,B_CP	
A_ACCESS_PTC	A_ACCESS_PCO	A_ACCESS_CP	
B_ISUP_PTC2	B_PCO, A_SCCP_PCO	B_CP	
Detailed Comments :			

ASP Type Definition		
ASP Name : DL_DAT_IN (DL_DATA_INDICATION) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the receipt of layer 3 pdus using acknowledged operation (L2 ----> L3)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	PDU	contains network layer (peer-to-peer message) pdu. Acknowledged operation used.
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_DAT_IN_DISC _r (DL_DATA_INDICATION) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the receipt of layer 3 pdus using acknowledged operation (L2 ----> L3)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	DISC_PDU	contains network layer (peer-to-peer message) pdu. Acknowledged operation used.
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_DAT_RQ (DL_DATA_REQUEST) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the transmission of layer 3 pdus using acknowledged operation (L3 ----> L2)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	PDU	contains network layer (peer-to-peer message) pdu. Acknowledged operation used.
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_EST_CO (DL_ESTABLISH_CONFIRM) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to confirm the establishment of multiple frame operation (L2 ----> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_EST_IN (DL_ESTABLISH_INDICATION) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the establishment of multiple frame operation (L2 ----> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_EST_RQ (DL_ESTABLISH_REQUEST) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the establishment of multiple frame operation (L3 ----> L2)		
Parameter Name	Parameter Type	Comments
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_REL_CO (DL_RELEASE_CONFIRM) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to confirm the termination of an established multiple frame operation (L2 ----> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_REL_IN (DL_RELEASE_INDICATION) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the termination of an established multiple frame operation or to report an unsuccessful establishment attempt (L2 ----> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : DL_REL_RQ (DL_RELEASE_REQUEST) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the termination of an established multiple frame operation (L3 ----> L2)		
Parameter Name	Parameter Type	Comments
Detailed Comments : &COMMON_N10		

ASP Type Definition		
ASP Name : M_TRANSFERind(MTP_TRANSFER_Indication) PCO Type : ISUP_PCO Comments : MTP ASP for receiving ISUP messages FS : 2.1 / 61/155 17-CRT 212 31 Uen Rev. A		
Parameter Name	Parameter Type	Comments
sio	SIO	Service information octet
opc	INTEGER	Originating point code (Field of routing label)
dpc	INTEGER	Destination point code (Field of routing label)
sls	INTEGER	Signalling link selection (Field of routing label)
data	PDU	ISUP signalling message
Detailed Comments :		

ASP Type Definition		
ASP Name : M_TRANSFERreq(MTP_TRANSFER_Request) PCO Type : ISUP_PCO Comments : MTP ASP for sending ISUP messages FS : 2.1 / 61/155 17-CRT 212 31 Uen Rev. A		
Parameter Name	Parameter Type	Comments
sio	SIO	Service information octet
opc	INTEGER	Originating point code (Field of routing label)
dpc	INTEGER	Destination point code (Field of routing label)
sls	INTEGER	Signalling link selection (Field of routing label)
data	PDU	ISUP signalling message
Detailed Comments :		

ASP Type Definition		
ASP Name : Non_ISUP_IND PCO Type : NON_ISUP_PCO Comments :		
Parameter Name	Parameter Type	Comments
non_isup_pdu	PrintableString	
Detailed Comments :		

ASP Type Definition		
ASP Name : Non_ISUP_REQ PCO Type : NON_ISUP_PCO Comments :		
Parameter Name	Parameter Type	Comments
non_isup_pdu	PrintableString	
Detailed Comments :		

ASP Type Definition		
ASP Name : TCAP_IND PCO Type : TCAP_PCO Comments : ASP for receiving TCAP messages		
Parameter Name	Parameter Type	Comments
tcap_pdu	PrintableString	SCCP/TCAP signalling message
Detailed Comments :		

ASP Type Definition		
ASP Name : TCAP_REQ		
PCO Type : TCAP_PCO		
Comments : ASP for sending TCAP messages		
Parameter Name	Parameter Type	Comments
tcap_pdu	PrintableString	SCCP/TCAP signalling message
Detailed Comments :		

PDU Type Definition			
PDU Name : PSEUDO_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : This PDU is used in case of general access system			
Field Name	Field Type	Field Encoding	Comments
Detailed Comments :			

PDU Type Definition			
PDU Name : ALERT_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : ALERTing u <-> n ETS 300 102-1 subclause 3.1.1			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
ronn	RONN		redirection number (n ->u) O OCTETSTRING[2..24]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : CALL_PROC_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : CALL PROCeeding u <--> n local ETS 300 102-1 subclause 3.1.2			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N12			

PDU Type Definition			
PDU Name : CONN_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : CONNect ACKnowledge u <--> n local ETS 300 102-1 subclause 3.1.5			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : CONN_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : CONNect u <-> n ETS 300 102-1 subclause 3.1.4			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n->u) O OCTETSTRING[2..34]
dati	DATI		date/time (n->u) O OCTETSTRING [2..7]
codn	CODN		connected number O OCTETSTRING[2..24]
cods	CODS		connected subaddress O OCTETSTRING[2..23]
ronn	RONN		redirection number (n->u) O OCTETSTRING[2..24]
llc	LLC		low layer compatib. O OCTETSTRING[2..16]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : DISC_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : DISConnect u <--> n ETS 300 102-1 subclause 3.1.6			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU_1		cause O OCTETSTRING[4..34]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments :			

PDU Type Definition			
PDU Name : DISC_N_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : DISConnect u <--> n ETS 300 102-1 subclause 3.1.6			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause O OCTETSTRING[4..34]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments :			

PDU Type Definition			
PDU Name : FAC_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : FACility u <-> n ETS 300 196 subclause 11.1.1.1, 11.1.2.1, 11.1.3.1			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
fie	FIES		facility M
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
cdpn	CDPN		called party number O OCTETSTRING[2..23]
cdps	CDPS		called party subaddress O OCTETSTRING [2..23]
ronn	RONN		redirection number (n ->u) O OCTETSTRING[2..24]
Detailed Comments : &COMMON_U09 CDPN and CDPS may only be included, if the dummy call reference is used.			

PDU Type Definition			
PDU Name : HOLD_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : HOLD_ACKnowledge u <-> n ETS 300 196 subclause 11.1.1.3			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
fie	FIES		facility O
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : HOLD_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : HOLD u <-> n ETS 300 196 subclause 11.1.1.2			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
fie	FIES		facility O
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : HOLD_REJ_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : HOLD_REJect u <-> n ETS 300 196 clause 11.1.1.4			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	BITSTRING [8]		message type M
cau	CAU_1		cause O OCTETSTRING[4..34]
fie	FIES		facility O
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N03			

PDU Type Definition			
PDU Name : INFO_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : INFOrmation u <--> n local ETS 300 102-1 subclause 3.1.8			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING1..[3]
mt	MT		message type M
sci	BITSTRING[8]		sending complete information O
cau	CAU		cause O OCTETSTRING[4..34]
fie	FIES		facility O
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
kpf	KPF		keypad facility (n ->u) O OCTETSTRING [2..34]
cdpn	CDPN		called party number O OCTETSTRING[2..23]
ronn	RONN		redirection number (n ->u) O OCTETSTRING[2..24]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : NOTIFY_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : NOTIFY u <--> n access ETS 300 102-1 subclause 3.1.9			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[3]
mt	MT		message type M
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
ronn	RONN		redirection number (n ->u) O OCTETSTRING[2..24]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : PROG_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : PROGRess u <-> n ETS 300 102-1 subclause 3.1.10			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause O OCTETSTRING[4..34]
fie	FIES		facility O
pi	PI		progress indicator M OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
ronn	RONN		redirection number (n ->u) O OCTETSTRING[2..24]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments : &COMMON_N12			

PDU Type Definition			
PDU Name : REG_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : REGister u <-> n local ETS 300 196 subclause 11.1.2.2			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[2..3]
mt	MT		message type M
fie	FIES		facility O
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N12			

PDU Type Definition			
PDU Name : REL_COM_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RELease COMplete u <-> n local ETS 300 102-1 subclause 3.1.12			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause C OCTETSTRING[4..34]
fie	FIES		facility O
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
uui	UUI		user-user info (u->n) O OCTETSTRING[2..131]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : REL_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RELease u <-> n local ETS 300 102-1 subclause 3.1.11			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause C OCTETSTRING[4..34]
fie	FIES		facility O
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : RESTART_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RESTART ACKnowledge u <-> n local ETS 300 102-1 subclause 3.4.2			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[3]
mt	MT		message type M
chi	CHI		channel identification O OCTETSTRING[2..5]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
ri	RI		restart indicator O OCTETSTRING[3]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : RESTART_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RESTART u <-> n local ETS 300 102-1 subclause 3.4.1			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[3]
mt	MT		message type M
chi	CHI		channel identification O OCTETSTRING[2..5]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
ri	RI		restart indicator O OCTETSTRING[3]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : RESUME_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SUSPEND ACKNOWLEDGEMENT u <- n local ETS 300 102-1 subclause 3.1.21			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
dsp	DSP		display (n ->u) O OCTETSTRING[2..3]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : RESUME_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RESUME u -> n local ETS 300 102-1 subclause 3.1.13			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cid	CID		call identity (u ->n) O OCTETSTRING[2..10]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : RESUME_REJ_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RESUME REJECT u <- n local ETS 300 102-1 subclause 3.1.15			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause M OCTETSTRING[4..32]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : RET_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RETrieve_ACKnowledge u <-> n ETS 300 196 clause 11.1.1.6			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	BITSTRING [8]		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N03			

PDU Type Definition			
PDU Name : RET_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RETrieve u <-> n ETS 300 196 clause 11.1.1.5			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	BITSTRING [8]		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N03			

PDU Type Definition			
PDU Name : RET_REJ_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : RETrieve_REJect u <-> n ETS 300 196 clause 11.1.1.7			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	BITSTRING [8]		message type M
cau	CAU		cause M OCTETSTRING[4..34]
fie	FIES		facility O
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N03			

PDU Type Definition			
PDU Name : SETUP_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SETUP ACKnowledge u <--> n local ETS 300 102-1 subclause 3.1.17			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : SETUP_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SETUP u <-> n ETS 300 102-1 subclause 3.1.16			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
sci	BITSTRING[8]		sending compl. infor. O
bcap	BCAP		bearer capab. n ->u M OCTETSTRING[4..13]
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
nsf	NSF		net. specific facil. O OCTETSTRING [2..254]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
kpf	KPF		keypad facility n ->u O OCTETSTRING [2..34]
cgpn	CGPN		calling party number O OCTETSTRING [2..24]
cgps	CGPS		calling party subaddress O OCTETSTRING [2..23]
cdpn	CDPN		called party number O OCTETSTRING[2..23]
cdps	CDPS		called party subaddress O OCTETSTRING [2..23]
rngn	RNGN		redirecting number (n ->u) O OCTETSTRING[2..25]
tns	TNS		transit net. select. O OCTETSTRING [2..254]
llc	LLC		low layer compatib. O OCTETSTRING[2..16]
hlc	HLC		high layer compat. O OCTETSTRING[2..4]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : SETUPrngn_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SETUP u <-> n ETS 300 102-1 subclause 3.1.16			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
sci	BITSTRING[8]		sending compl. infor. O
bcap	BCAP		bearer capab. n ->u M OCTETSTRING[4..13]
chi	CHI		channel identification C OCTETSTRING[2..5]
fie	FIES		facility O
pi	PI		progress indicator O OCTETSTRING[2..4]
nsf	NSF		net. specific facil. O OCTETSTRING [2..254]
noid	NOID		notification indicator M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
kpf	KPF		keypad facility n ->u O OCTETSTRING [2..34]
cgpn	CGPN		calling party number O OCTETSTRING [2..24]
cgps	CGPS		calling party subaddress O OCTETSTRING [2..23]
cdpn	CDPN		called party number O OCTETSTRING[2..23]
cdps	CDPS		called party subaddress O OCTETSTRING [2..23]
rngn	RNGN		redirecting number (n ->u) O OCTETSTRING[2..25]
rngn2	RNGN		redirecting number (n ->u) O OCTETSTRING[2..25]
tns	TNS		transit net. select. O OCTETSTRING [2..254]
llc	LLC		low layer compatib. O OCTETSTRING[2..16]
hlc	HLC		high layer compat. O OCTETSTRING[2..4]
uui	UUI		user-user information O OCTETSTRING[2..131]
Detailed Comments :			

PDU Type Definition			
PDU Name : STATUS_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : STATUS u <-> n local ETS 300 102-1 subclause 3.1.18			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause M OCTETSTRING[4..34]
cst	CST		call state M OCTETSTRING[3]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : ST_ENQ_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SStatus_ENQuiry u <-> n local ETS 300 102-1 subclause 3.1.19			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : SUSPEND_ACK_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SUSPEND ACKNOWLEDGEMENT u <- n local ETS 300 102-1 subclause 3.1.21			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
dsp	DSP		display (n ->u) O OCTETSTRING[2..3]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : SUSPEND_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : SUSPEND u -> n local ETS 300 102-1 subclause 3.1.20			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cid	CID		call identity (u ->n) O OCTETSTRING[2..10]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : SUSPEND_REJ_PDU PCO Type : SAP Encoding Rule Name : Encoding Variation : Comments : SUSPEND REJECT u <- n local ETS 300 102-1 subclause 3.1.22			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
cau	CAU		cause M OCTETSTRING[4..32]
dsp	DSP		display (n ->u) O OCTETSTRING[2..34]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : USER_INFO_PDU PCO Type : ACCESS_PCO Encoding Rule Name : Encoding Variation : Comments : USER INFORMATION u <-> n local ETS 300 102-1 subclause 3.1.23			
Field Name	Field Type	Field Encoding	Comments
pd	PD		protocol discriminator M
cr	CR		call reference M OCTETSTRING[1..3]
mt	MT		message type M
md	BITSTRING[8]		more data O
uui	UUI		user user information (n<->u) M OCTETSTRING[3....]
Detailed Comments : &COMMON_N10			

PDU Type Definition			
PDU Name : DATA_TYPE_PDU PCO Type : ISUP_PCO Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Type	Field Encoding	Comments
cic	cic_type		
information	information_type		
Detailed Comments :			

PDU Type Definition			
PDU Name : data_type PCO Type : ISUP_PCO Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Type	Field Encoding	Comments
cic	cic_type		
information	information_type		
Detailed Comments :			

ASN.1 PDU Type Definition			
PDU Name : ACM PCO Type : ISUP_PCO Encoding Rule Name : Encoding Variation : Comments : Address complete, TABLE 21 / Q.763 FS : 2.2.2.1 / 61/155 17 CRT 212 31 Uen Rev. A			
Type Definition			
SEQUENCE { cic Circuit_identification_code , messageType Message_type , backwardCallInd Backward_call_indicators , opt_part_ptr OCT_1, acmOptionals SET { optBackwardCallInd Optional_backward_call_indicators OPTIONAL , callReference Call_reference OPTIONAL , causeInd Cause_indicators OPTIONAL , userToUserInd User_to_user_indicators OPTIONAL , userToUserInfo User_to_user_information OPTIONAL , accessTransport Access_transport OPTIONAL , genericNotificationInd Generic_notification_indicator OPTIONAL , transMediumUsed Transmission_medium_used OPTIONAL , echoControlInfo Echo_control_information OPTIONAL , accessDeliveryInfo Access_delivery_information OPTIONAL , redirectionNum Redirection_number OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL , callDiversionInfo Call_diversion_information OPTIONAL , networkFacility Network_specific_facility OPTIONAL , remoteOperations Remote_operations OPTIONAL , serviceActivation Service_activation OPTIONAL , redirectionNumRest Redirection_number_restriction OPTIONAL , routeIdentity Route_identity OPTIONAL , callTransferTreatmentInd Call_transfer_treatment_indicators OPTIONAL , conferenceTreatmentInd Conference_treatment_indicators OPTIONAL } OPTIONAL, endOfOp OCT_1 OPTIONAL }			
Detailed Comments : acmOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.			

ASN.1 PDU Type Definition		
PDU Name	: ANM	
PCO Type	: ISUP_PCO	
Encoding Rule Name	:	
Encoding Variation	:	
Comments	: Answer (TABLE 22 / Q.763) FS : 2.2.2.2 / 61/155 17 CRT 212 31 Uen Rev. A	
Type Definition		
SEQUENCE {		
cic	Circuit_identification_code ,	
messageType	Message_type ,	
opt_part_ptr	OCT_1,	
anmOptionals SET {		
backwardCallInd	Backward_call_indicators	OPTIONAL ,
optBackwardCallInd	Optional_backward_call_indicators	OPTIONAL ,
callReference	Call_reference	OPTIONAL ,
userToUserInd	User_to_user_indicators	OPTIONAL ,
userToUserInfo	User_to_user_information	OPTIONAL ,
connectedNum	Connected_number	OPTIONAL ,
accessTransport	Access_transport	OPTIONAL ,
accessDeliveryInfo	Access_delivery_information	OPTIONAL ,
genericNotificationInd	Generic_notification_indicator	OPTIONAL ,
paramCompatibilityInfo	Parameter_compatibility_information	OPTIONAL ,
backwardGVNS	Backward_GVNS	OPTIONAL ,
callHistoryInfo	Call_history_information	OPTIONAL ,
genericNum	Generic_number	OPTIONAL ,
transMediumUsed	Transmission_medium_used	OPTIONAL ,
networkFacility	Network_specific_facility	OPTIONAL ,
remoteOperations	Remote_operations	OPTIONAL ,
redirectionNum	Redirection_number	OPTIONAL ,
serviceActivation	Service_activation	OPTIONAL ,
echoControlInfo	Echo_control_information	OPTIONAL ,
redirectionNumRest	Redirection_number_restriction	OPTIONAL ,
callTransferTreatmentInd	Call_transfer_treatment_indicators	OPTIONAL ,
conferenceTreatmentInd	Conference_treatment_indicators	OPTIONAL
} OPTIONAL ,		
endOfOp	OCT_1	OPTIONAL
}		
Detailed Comments	: anmOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: BLA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Blocking acknowledgement (TABLE 39 / Q.763) FS : 2.2.2.4 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: BLO
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Blocking (TABLE 39 / Q.763) FS : 2.2.2.3 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: CCR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Continuity check request (TABLE 39 / Q.763) FS : 2.2.2.18 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: CFN
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Confusion (TABLE 26 / Q.763) FS : 2.2.2.15 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre>SEQUENCE { cic Circuit_identification_code , messageType Message_type , causeInd Cause_indicators , cfnOptionals SET { } OPTIONAL , endOfOp OCT_1 OPTIONAL }</pre>	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: CFN_unknown
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Confusion (TABLE 26 / Q.763) FS : 2.2.2.15 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre>SEQUENCE { cic Circuit_identification_code , messageType Message_type , causeInd Cause_indicators , cfnOptionals SET { unknown Unknown_parameter OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL }</pre>	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: CGB
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group blocking (TABLE 40 / Q.763) FS : 2.2.2.7 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type, circuitGroupSupervMsgInd Circuit_group_supervision_message_type_indicator , rangeAndStatus Range_and_status } </pre>	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: CGBA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group blocking acknowledgement (TABLE 40 / Q.763) FS : 2.2.2.8 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type, circuitGroupSupervMsgInd Circuit_group_supervision_message_type_indicator, rangeAndStatus Range_and_status } </pre>	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: CGU
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group unblocking (TABLE 40 / Q.763) FS : 2.2.2.13 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type, circuitGroupSupervMsgInd Circuit_group_supervision_message_type_indicator, rangeAndStatus Range_and_status } </pre>	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: CGUA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group unblocking acknowledgement (TABLE 40 / Q.763) FS : 2.2.2.14 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic messageType circuitGroupSupervMsgInd rangeAndStatus }	Circuit_identification_code , Message_type, Circuit_group_supervision_message_type_indicator, Range_and_status
Detailed Comments	:

ASN.1 PDU Type Definition		
PDU Name	: CON	
PCO Type	: ISUP_PCO	
Encoding Rule Name	:	
Encoding Variation	:	
Comments	: Connect (TABLE 27 / Q.763) FS : 2.2.2.16 / 61/155 17 CRT 212 31 Uen Rev. A	
Type Definition		
SEQUENCE {		
cic	Circuit_identification_code ,	
messageType	Message_type ,	
backwardCallInd	Backward_call_indicators ,	
opt_part_ptr	OCT_1,	
conOptionals SET {		
optBackwardCallInd	Optional_backward_call_indicators	OPTIONAL ,
backwardGVNS	Backward_GVNS	OPTIONAL ,
callReference	Call_reference	OPTIONAL ,
userToUserInd	User_to_user_indicators	OPTIONAL ,
userToUserInfo	User_to_user_information	OPTIONAL ,
connectedNum	Connected_number	OPTIONAL ,
accessTransport	Access_transport	OPTIONAL ,
accessDeliveryInfo	Access_delivery_information	OPTIONAL ,
genericNotificationInd	Generic_notification_indicator	OPTIONAL ,
paramCompatibilityInfo	Parameter_compatibility_information	OPTIONAL ,
callHistoryInfo	Call_history_information	OPTIONAL ,
genericNum	Generic_number	OPTIONAL ,
transMediumUsed	Transmission_medium_used	OPTIONAL ,
networkFacility	Network_specific_facility	OPTIONAL ,
remoteOperations	Remote_operations	OPTIONAL ,
redirectionNum	Redirection_number	OPTIONAL ,
serviceActivation	Service_activation	OPTIONAL ,
echoControllInfo	Echo_control_information	OPTIONAL ,
routeIdentity	Route_identity	OPTIONAL ,
redirectionNumRest	Redirection_number_restriction	OPTIONAL ,
callTransferTreatmentInd	Call_transfer_treatment_indicators	OPTIONAL ,
conferenceTreatmentInd	Conference_treatment_indicators	OPTIONAL
} OPTIONAL ,		
endOfOp	OCT_1	OPTIONAL
}		
Detailed Comments	: conOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: COT
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Continuity (TABLE 28 / Q.763) FS : 2.2.2.17 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type, continuityInd Continuity_indicators }	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: CPG
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Call progress (TABLE 23 / Q.763) FS : 2.2.2.5 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , eventInfo Event_information, opt_part_ptr OCT_1, cpGOptions SET { optBackwardCallInd Optional_backward_call_indicators OPTIONAL , callReference Call_reference OPTIONAL , backwardCallInd Backward_call_indicators OPTIONAL, causeInd Cause_indicators OPTIONAL , userToUserInd User_to_user_indicators OPTIONAL , userToUserInfo User_to_user_information OPTIONAL , accessTransport Access_transport OPTIONAL , genericNotificationInd Generic_notification_indicator OPTIONAL , transMediumUsed Transmission_medium_used OPTIONAL , echoControlInfo Echo_control_information OPTIONAL , accessDeliveryInfo Access_delivery_information OPTIONAL , redirectionNum Redirection_number OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL , callDiversionInfo Call_diversion_information OPTIONAL , networkFacility Network_specific_facility OPTIONAL , remoteOperations Remote_operations OPTIONAL , serviceActivation Service_activation OPTIONAL , redirectionNumRest Redirection_number_restriction OPTIONAL , callTransferNumber Call_transfer_number OPTIONAL , callTransferTreatmentInd Call_transfer_treatment_indicators OPTIONAL , conferenceTreatmentInd Conference_treatment_indicators OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments	: cpGOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: CPG_unknown
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Call progress (TABLE 23 / Q.763) FS : 2.2.2.5 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , eventInfo Event_information, cpOptions SET { optBackwardCallInd Optional_backward_call_indicators OPTIONAL , callReference Call_reference OPTIONAL , backwardCallInd Backward_call_indicators OPTIONAL , causeInd Cause_indicators OPTIONAL , userToUserInd User_to_user_indicators OPTIONAL , userToUserInfo User_to_user_information OPTIONAL , accessTransport Access_transport OPTIONAL , genericNotificationInd Generic_notification_indicator OPTIONAL , transMediumUsed Transmission_medium_used OPTIONAL , echoControlInfo Echo_control_information OPTIONAL , accessDeliveryInfo Access_delivery_information OPTIONAL , redirectionNum Redirection_number OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL , callDiversionInfo Call_diversion_information OPTIONAL , networkFacility Network_specific_facility OPTIONAL , remoteOperations Remote_operations OPTIONAL , serviceActivation Service_activation OPTIONAL , redirectionNumRest Redirection_number_restriction OPTIONAL , callTransferNumber Call_transfer_number OPTIONAL , callTransferTreatmentInd Call_transfer_treatment_indicators OPTIONAL , conferenceTreatmentInd Conference_treatment_indicators OPTIONAL , unknown Unknown_parameter OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments	: cpOptions is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: CQM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group query @ (TABLE 41 / Q.763) FS : 2.2.2.9 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type, rangeAndStatus Range_and_status }	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: CQR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group query response @ (TABLE 24 / Q.763) FS : 2.2.2.10 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type, rangeAndStatus Range_and_status , circuitStateInd Circuit_state_indicator }	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: CRG
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Charge Information FS: 2.2.2.6 / 61/15517–CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , crgOptionals SET { paramCompatibilityInfo Parameter_compatibility_information OPTIONAL , meterPulseInd Meter_pulse_indicator OPTIONAL , tariffInd Tariff_indicator OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : crgOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: FAA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Facility accepted (TABLE 42 / Q.763) FS : 2.2.2.20 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , facilityInd Facility_indicator, faaOptionals SET { userToUserInd User_to_user_indicators OPTIONAL, callReference Call_reference OPTIONAL, connectionRequest Connection_request OPTIONAL, paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : faaOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: FAC
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Facility @ (TABLE 45 / Q.763) FS : 2.2.2.19 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , opt_part_ptr OCT_1, facOptionals SET { messageCompatibilityInfo Message_compatibility_information OPTIONAL, paramCompatibilityInfo Parameter_compatibility_information OPTIONAL, remoteOperations Remote_operations OPTIONAL, serviceActivation Service_activation OPTIONAL , callTransferNumber Call_transfer_number OPTIONAL , accessTransport Access_transport OPTIONAL, genericNotificationInd Generic_notification_indicator OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments	: facOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: FAR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Facility request (TABLE 42 / Q.763) FS : 2.2.2.22 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , facilityInd Facility_indicator, farOptionals SET { userToUserInd User_to_user_indicators OPTIONAL, callReference Call_reference OPTIONAL, connectionRequest Connection_request OPTIONAL, paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments	: farOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: FOT
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Forward transfer (TABLE 37 / Q.763) FS : 2.2.2.23 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , fotOptionals SET { callReference Call_reference OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : fotOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: FRJ
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Facility reject (TABLE 29 / Q.763) FS : 2.2.2.21 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , facilityInd Facility_indicator, causeInd Cause_indicators , frjOptionals SET { userToUserInd User_to_user_indicators OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : frjOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: GRA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group reset acknowledgement (TABLE 25 / Q.763) FS : 2.2.2.12 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code, messageType Message_type, var_part_ptr OCT_1, rangeAndStatus Range_and_status }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: GRS
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Circuit group reset (TABLE 41 / Q.763) FS : 2.2.2.11 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type, rangeAndStatus Range_and_status }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: IAM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Initial address message (TABLE 32 / Q.763) FS : 2.2.2.28 / 61/155 17 CRT 212 31 Uen Rev. A

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ASN.1 PDU Type Definition		
Type Definition		
SEQUENCE {		
cic	Circuit_identification_code ,	
messageType	Message_type ,	
natureOfConnInd	Nature_of_connection_indicators ,	
forwardCallInd	Forward_call_indicators ,	
callingPartyCat	Calling_partys_category ,	
transmissionMediumReq	Transmission_medium_requirement ,	
var_part_ptr	OCT_1,	
opt_part_ptr	OCT_1,	
calledPartyNum	Called_party_number ,	
iamOptionals SET {		
transitNetworkSel	Transit_network_selection	OPTIONAL ,
callReference	Call_reference	OPTIONAL ,
callingPartyNum	Calling_party_number	OPTIONAL ,
freePhoneInd	Freephone_indicators	OPTIONAL ,
ccbsPar	CCBS_parameter	OPTIONAL,
optForwardCallInd	Optional_forward_call_indicators	OPTIONAL ,
redirectingNum	Redirecting_number	OPTIONAL ,
redirectionInfo	Redirection_information	OPTIONAL ,
cUGInterlockCode	Closed_user_group_interlock_code	OPTIONAL,
connectionRequest	Connection_request	OPTIONAL,
originalCalledNum	Original_called_number	OPTIONAL,
userToUserInfo	User_to_user_information	OPTIONAL ,
accessTransport	Access_transport	OPTIONAL ,
userServiceInfo	User_service_information	OPTIONAL ,
userToUserInd	User_to_user_indicators	OPTIONAL ,
genericNum	Generic_number	OPTIONAL ,
propDelayCounter	Propagation_delay_counter	OPTIONAL ,
userServiceInfoPrime	User_service_information_prime	OPTIONAL ,
netwSpecificFacility	Network_specific_facility	OPTIONAL ,
genericDigits	Generic_digits	OPTIONAL ,
origISCPPointCode	Origination_ISC_point_code	OPTIONAL ,
userTeleServiceInfo	User_teleservice_information	OPTIONAL ,
remoteOperations	Remote_operations	OPTIONAL ,
paramCompatibilityInfo	Parameter_compatibility_information	OPTIONAL ,
routeIdentity	Route_identity	OPTIONAL ,
genericNotificationInd	Generic_notification_indicator	OPTIONAL ,
serviceActivation	Service_activation	OPTIONAL ,
genericReference	Generic_reference	OPTIONAL ,
mLPPprecedence	MLPP_precedence	OPTIONAL ,
transMediumReqPrime	Transmission_medium_requirement_prime	OPTIONAL,
locationNum	Location_number	OPTIONAL ,
forwardGVNS	Forward_GVNS	OPTIONAL ,
distrDynRoutInd	Distributed_dynamic_routing_indicators	OPTIONAL,
addChargeInfo	Additional_charging_information	OPTIONAL,
addRoutInfo	Additional_routing_information	OPTIONAL,
correlationId	Correlation_id	OPTIONAL,
SCFid	SCF_id	OPTIONAL,
callTransferTreatmentInd	Call_transfer_treatment_indicators	OPTIONAL,
conferenceTreatmentInd	Conference_treatment_indicators	OPTIONAL,
callOfferingTreatmentInd	Call_offering_treatment_indicators	OPTIONAL,
callDiversionTreatmentInd	Call_diversion_treatment_indicators	OPTIONAL,
netwCallRef	Network_call_reference	OPTIONAL,
unknown	Unknown_parameter	OPTIONAL
} OPTIONAL , -- end of IAM_mOptionals set		
endOfOp	OCT_1	OPTIONAL
} -- end of IAM sequence		

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ASN.1 PDU Type Definition

Detailed Comments : iamOptional and iamOptional2 are not a real ISUP parameter, but a "virtual parameters" for testing of optional parameters and for negative testing.
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ASN.1 PDU Type Definition	
PDU Name	: IAM_unknown
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Initial address message (TABLE 32 / Q.763) FS : 2.2.2.28 / 61/155 17 CRT 212 31 Uen Rev. A

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ASN.1 PDU Type Definition		
Type Definition		
SEQUENCE {		
cic	Circuit_identification_code ,	
messageType	Message_type ,	
natureOfConnInd	Nature_of_connection_indicators ,	
forwardCallInd	Forward_call_indicators ,	
callingPartyCat	Calling_partys_category ,	
transmissionMediumReq	Transmission_medium_requirement ,	
calledPartyNum	Called_party_number ,	
iamOptionals SET {		
transitNetworkSel	Transit_network_selection	OPTIONAL ,
callReference	Call_reference	OPTIONAL ,
callingPartyNum	Calling_party_number	OPTIONAL ,
freePhoneInd	Freephone_indicators	OPTIONAL ,
ccbsPar	CCBS_parameter	OPTIONAL ,
optForwardCallInd	Optional_forward_call_indicators	OPTIONAL ,
redirectingNum	Redirecting_number	OPTIONAL ,
redirectionInfo	Redirection_information	OPTIONAL ,
cUGInterlockCode	Closed_user_group_interlock_code	OPTIONAL ,
connectionRequest	Connection_request	OPTIONAL ,
originalCalledNum	Original_called_number	OPTIONAL ,
userToUserInfo	User_to_user_information	OPTIONAL ,
accessTransport	Access_transport	OPTIONAL ,
userServiceInfo	User_service_information	OPTIONAL ,
userToUserInd	User_to_user_indicators	OPTIONAL ,
genericNum	Generic_number	OPTIONAL ,
unknown	Unknown_parameter	OPTIONAL ,
propDelayCounter	Propagation_delay_counter	OPTIONAL ,
userServiceInfoPrime	User_service_information_prime	OPTIONAL ,
netwSpecificFacility	Network_specific_facility	OPTIONAL ,
genericDigits	Generic_digits	OPTIONAL ,
origISCPPointCode	Origination_ISC_point_code	OPTIONAL ,
userTeleServiceInfo	User_telesevice_information	OPTIONAL ,
remoteOperations	Remote_operations	OPTIONAL ,
paramCompatibilityInfo	Parameter_compatibility_information	OPTIONAL ,
routeIdentity	Route_identity	OPTIONAL ,
genericNotificationInd	Generic_notification_indicator	OPTIONAL ,
serviceActivation	Service_activation	OPTIONAL ,
genericReference	Generic_reference	OPTIONAL ,
mLPPprecedence	MLPP_precedence	OPTIONAL ,
transMediumReqPrime	Transmission_medium_requirement_prime	OPTIONAL ,
locationNum	Location_number	OPTIONAL ,
forwardGVNS	Forward_GVNS	OPTIONAL ,
distrDynRoutInd	Distributed_dynamic_routing_indicators	OPTIONAL ,
addChargeInfo	Additional_charging_information	OPTIONAL ,
addRoutInfo	Additional_routing_information	OPTIONAL ,
correlationId	Correlation_id	OPTIONAL ,
SCFId	SCF_id	OPTIONAL ,
callTransferTreatmentInd	Call_transfer_treatment_indicators	OPTIONAL ,
conferenceTreatmentInd	Conference_treatment_indicators	OPTIONAL ,
callOfferingTreatmentInd	Call_offering_treatment_indicators	OPTIONAL ,
callDiversionTreatmentInd	Call_diversion_treatment_indicators	OPTIONAL ,
netwCallRef	Network_call_reference	OPTIONAL
} OPTIONAL , -- end of IAM_mOptionals set		
endOfOp OCT_1 OPTIONAL		
} -- end of IAM sequence		

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ASN.1 PDU Type Definition	
Detailed Comments	: iamOptional and iamOptional2 are not a real ISUP parameter, but a "virtual parameters" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: IDR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Identification request (TABLE 47 / Q.763) FS : 2.2.2.24 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type, idrOptionals SET { MCIDReqInd MCID_request_indicators OPTIONAL , messageCompatibilityInfo Message_compatibility_information OPTIONAL, paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } Detailed Comments : idrOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: INF
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Information @ (TABLE 30 / Q.763) FS : 2.2.2.26 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , informationInd Information_indicators, infOptionals SET { callingPartyCat Calling_partys_category OPTIONAL, callingPartyNum Calling_party_number OPTIONAL , accessTransport Access_transport OPTIONAL , callReference Call_reference OPTIONAL , connectionRequest Connection_request OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL, networkFacility Network_specific_facility OPTIONAL, displayInfo Display_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : infOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: INR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Information request @ (TABLE 31 / Q.763) FS : 2.2.2.27 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , informationRequestInd Information_request_indicators, inrOptionals SET { callReference Call_reference OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL, networkFacility Network_specific_facility OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : inrOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: IRS
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Identification response (TABLE 48 / Q.763) FS : 2.2.2.25 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , irsOptionals SET { MCIDResplnd MCID_response_indicators OPTIONAL , messageCompatibilityInfo Message_compatibility_information OPTIONAL, paramCompatibilityInfo Parameter_compatibility_information OPTIONAL, callingPartyNum Calling_party_number OPTIONAL , accessTransport Access_transport OPTIONAL , genericNum Generic_number OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : irsOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: LOP
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Loop prevention FS : 2.2.2.29 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type, opt_part_ptr OCT_1, lopOptionals SET { paramCompatibilityInfo Parameter_compatibility_information OPTIONAL , callTransferReference Call_transfer_reference OPTIONAL , loopPreventionInd Loop_prevention_indicators OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : lopOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: LPA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Loop back acknowledgement @ (TABLE 39 / Q.763)
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: MXX
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Unknown message
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type , mxxOptionals SET { messageCompatibilityInfo Message_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL }	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: NRM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Network resource management (TABLE 46 / Q.763) FS : 2.2.2.30 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre>SEQUENCE { cic Circuit_identification_code , messageType Message_type , nrmOptionals SET { messageCompatibilityInfo Message_compatibility_information OPTIONAL, paramCompatibilityInfo Parameter_compatibility_information OPTIONAL, echoControlInf Echo_control_information OPTIONAL, transMediumUsed Transmission_medium_used OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL }</pre>	
Detailed Comments	: nrmOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: OLM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Overload @ (TABLE 39 / Q.763)
Type Definition	
<pre>SEQUENCE { cic Circuit_identification_code , messageType Message_type }</pre>	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: OPQ
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Operator Queue FS: 2.2.2.32 / 61/15517-CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , opqOptionals SET { messageCompatibilityInfo Message_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : opqOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: OPR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Operator FS: 2.2.2.31 / 61/15517-CRT 212 31 Uen Rev. A)
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , oprOptionals SET { messageCompatibilityInfo Message_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : oprOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: PAM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Pass_along @ (TABLE 43 / Q.763)
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , contents OCT_N } </pre>	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: REL
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Release (TABLE 33 / Q.763) FS : 2.2.2.33 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , var_part_ptr OCT_1, opt_part_ptr OCT_1, causeInd Cause_indicators , relOptionals SET { redirectingInfo Redirection_information OPTIONAL , redirectionNum Redirection_number OPTIONAL , accessTransport Access_transport OPTIONAL , sigPointCode Signalling_point_code OPTIONAL , userToUserInfo User_to_user_information OPTIONAL , autCongLevel Automatic_congestion_level OPTIONAL , networkFacility Network_specific_facility OPTIONAL , accessDeliveryInfo Access_delivery_information OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL , redirectionNumRest Redirection_number_restriction OPTIONAL , userToUserInd User_to_user_indicators OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments	: relOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition		
PDU Name	: REL_unknown	
PCO Type	: ISUP_PCO	
Encoding Rule Name	:	
Encoding Variation	:	
Comments	: Release (TABLE 33 / Q.763) FS : 2.2.2.33 / 61/155 17 CRT 212 31 Uen Rev. A	
Type Definition		
SEQUENCE {		
cic	Circuit_identification_code ,	
messageType	Message_type ,	
causeInd	Cause_indicators ,	
relOptionals SET {		
redirectingInfo	Redirection_information	OPTIONAL ,
redirectionNum	Redirection_number	OPTIONAL ,
accessTransport	Access_transport	OPTIONAL ,
sigPointCode	Signalling_point_code	OPTIONAL ,
userToUserInfo	User_to_user_information	OPTIONAL ,
autCongLevel	Automatic_congestion_level	OPTIONAL ,
networkFacility	Network_specific_facility	OPTIONAL ,
accessDeliveryInfo	Access_delivery_information	OPTIONAL ,
paramCompatibilityInfo	Parameter_compatibility_information	OPTIONAL ,
redirectionNumRest	Redirection_number_restriction	OPTIONAL ,
userToUserInd	User_to_user_indicators	OPTIONAL ,
unknown	Unknown_parameter	OPTIONAL
} OPTIONAL ,		
endOfOp	OCT_1	OPTIONAL
}		
Detailed Comments	: relOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: RES
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Resume (TABLE 38 / Q.763) FS : 2.2.2.36 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , SUSRESInd Suspend_resume_indicators, opt_part_ptr OCT_1, resOptionals SET { callReference Call_reference OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : resOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: RLC
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Release complete (TABLE 34 / Q.763) FS : 2.2.2.34 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type, opt_part_ptr OCT_1, rlcOptionals SET { causeInd Cause_indicators OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : rlcOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: RLC_unknown
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Release complete (TABLE 34 / Q.763) FS : 2.2.2.34 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type, rlcOptionals SET { causeInd Cause_indicators OPTIONAL, unknown Unknown_parameter OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments	: rlcOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

ASN.1 PDU Type Definition	
PDU Name	: RSC
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Reset circuit (TABLE 39 / Q.763) FS : 2.2.2.35 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type } </pre>	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: SAM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Subsequent address (TABLE 35 / Q.763) FS : 2.2.2.39 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , subsequentNum Subsequent_number , samOptionals SET { } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : samOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: SCB
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Special Clear Back FS : 2.2.2.38 / 61/15517–CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , scbOptionals SET { messageCompatibilityInfo Message_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : scbOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: SGM
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Segmentation (TABLE 49 / Q.763) FS : 2.2.2.37 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , sgmOptionals SET { accessTransport Access_transport OPTIONAL , userToUserInfo User_to_user_information OPTIONAL , messageCompatibilityInfo Message_compatibility_information OPTIONAL, genericDigits Generic_digits OPTIONAL, genericNotificationInd Generic_notification_indicator OPTIONAL, genericNum Generic_number OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : sgmOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: SUS
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Suspend (TABLE 38 / Q.763) FS : 2.2.2.40 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , SUSRESInd Suspend_resume_indicators, opt_part_ptr OCT_1, susOptionals SET { callReference Call_reference OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : susOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: UBA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Unblocking acknowledgement (TABLE 39 / Q.763) FS : 2.2.2.42 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: UBL
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Unblocking (TABLE 39 / Q.763) FS : 2.2.2.41 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: UCIC
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: Unequipped circuit identification code @ (TABLE 39 / Q.763) FS : 2.2.2.43 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
SEQUENCE { cic Circuit_identification_code , messageType Message_type }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: UPA
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: User part available (TABLE 44 / Q.763)
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , upaOptionals SET { paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : upaOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: UPT
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: User part test (TABLE 44 / Q.763)
Type Definition	
<pre> SEQUENCE { cic Circuit_identification_code , messageType Message_type , uptOptionals SET { paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL } </pre>	
Detailed Comments : uptOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.	

ASN.1 PDU Type Definition	
PDU Name	: USR
PCO Type	: ISUP_PCO
Encoding Rule Name	:
Encoding Variation	:
Comments	: User-to-user information (TABLE 36 / Q.763) FS : 2.2.2.44 / 61/155 17 CRT 212 31 Uen Rev. A
Type Definition	
<pre>SEQUENCE { cic Circuit_identification_code , messageType Message_type , userToUserInfo User_to_user_information , usrOptionals SET { accessTransport Access_transport OPTIONAL , paramCompatibilityInfo Parameter_compatibility_information OPTIONAL } OPTIONAL , endOfOp OCT_1 OPTIONAL }</pre>	
Detailed Comments	: usrOptional is not a real ISUP parameter, but a "virtual parameter" for testing of optional parameters and for negative testing.

CM Type Definition		
CM Name : TOKEN		
Comments :		
Parameter Name	Parameter Type	Comments
id	INTEGER	Coordination Message Identification
Detailed Comments :		

III

Constraints Part

Structured Type Constraint Declaration			
Constraint Name : c_Access_delivery_information Structured Type : Access_delivery_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessDeliveryInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
AccessDel	–		
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Access_transport Structured Type : Access_transport Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessTransport		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ATP_field	'7D029181'O		HLC (Telephony)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Access_transport_called_party_sub_address_AB Structured Type : Access_transport Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessTransport		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ATP_field	'7003A01111'O		Sub-Address of Called Party of Length 3, and user Specified with address signals =1111.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Access_transport_called_party_sub_address_BA Structured Type : Access_transport Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessTransport		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ATP_field	'7003A02222'O		Sub-Address of Called Party of Length 3, and user Specified with address signals =2222.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Access_transport_called_party_sub_address_BC Structured Type : Access_transport Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessTransport		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ATP_field	'7003A03333'O		Sub-Address of Called Party of Length 3, and user Specified with address signals =3333.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Access_transport_calling_party_sub_address_AB Structured Type : Access_transport Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessTransport		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ATP_field	'6D03A01111'O		Sub-Address of Calling Party of Length 3, and user Specified with address signals =1111.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Additional_charging_information Structured Type : Additional_charging_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_addChargeInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
AddChargeInfo	'00000001'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Additional_routing_information Structured Type : Additional_routing_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_addRoutInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
AddRoutInfo	'0001'O		Dummy value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Any_Circuit_group_supervision_message_type_indicator Structured Type : Circuit_group_supervision_message_type_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
Type	*		
Spare	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Any_cause_Indicators Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	*		Any Legal value
Spare	*		Any Legal value
CodingStandard	*		Any Legal value
Ext1	*		Any Legal value
Reserved	*		
Ext1a	*		
CauseValue	*		Any Legal value
Ext2	*		Any Legal value
Diagnostics	*		Any Legal value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Any_range_and_status Structured Type : Range_and_status Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Range	*		
Status	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Automatic_congestion_level Structured Type : Automatic_congestion_level Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_autCongLevel		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CongLevel	'00000001'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_BCI_called_status_no_indication_charge_no_indication Structured Type : Backward_call_indicators Derivation Path : c_Backward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_backwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ChargeInd	'00'B		no indication
CalledPartyStatusInd	'00'B		no indication
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_BCI_called_status_sub_free_charge_no_indication Structured Type : Backward_call_indicators Derivation Path : c_Backward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_backwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ChargeInd	'01'B		no indication
CalledPartyStatusInd	'00'B		no indication
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_BCI_subs_status_no_ind Structured Type : Backward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_backwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ChargeInd	'00'B		charge
CalledPartyStatusInd	'00'B		subscriber free
CalledPartyCatInd	'00'B		ordinary subscriber
EndToEndInd	'00'B		no method available
InterworkingInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
HoldingInd	'0'B		holding not requested
ISDNAccessInd	'0'B		non-ISDN
EchoControlDevInd	'0'B		incoming half echo control device not included
SCCPMethodInd	'00'B		no indication
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Backward_GVNS Structured Type : Backward_GVNS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_backwardGVNS		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TerminatingAccessInd	'00'B		
Spare	'00000'B		
ExtensionInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Backward_call_indicators Structured Type : Backward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
ChargeInd	'10'B		charge
CalledPartyStatusInd	'01'B		subscriber free
CalledPartyCatInd	'01'B		ordinary subscriber
EndToEndInd	'00'B		no method available
InterworkingInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
HoldingInd	'0'B		holding not requested
ISDNAccessInd	'0'B		non-ISDN
EchoControlDevInd	'0'B		incoming half echo control device not included
SCCPMethodInd	'00'B		no indication
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Backward_call_indicators_o Structured Type : Backward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_backwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ChargeInd	'10'B		charge
CalledPartyStatusInd	'01'B		subscriber free
CalledPartyCatInd	'01'B		ordinary subscriber
EndToEndInd	'00'B		no method available
InterworkingInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
HoldingInd	'0'B		holding not requested
ISDNAccessInd	'0'B		non-ISDN
EchoControlDevInd	'0'B		incoming half echo control device not included
SCCPMethodInd	'00'B		no indication
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CCBS_parameter Structured Type : CCBS_parameter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_CCBSParam		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CCBSCallInd	'1'B		CCBS call indicator
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CUG_interlock_code Structured Type : Closed_user_group_interlock_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_cUGInterlockCode		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGIC_contents	'01115555'O		binary code = 5555 NI = 0111 (TCC=111)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_diversion_information Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'000'B		Unknown
RedirectionReason	'0000'B		Unknown
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_diversion_treatment_indicators Structured Type : Call_diversion_treatment_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionTreatmentInd		Parameter name
length	TSO_CALC_PAR_LENGTH()		Length indicator of parameter
CallDivertedInd	'00'B		
Spare	'00000'B		
ExtensionInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_history_information Structured Type : Call_history_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callHistoryInfo		Parameter name
length	TSO_CALC_PAR_LENGTH()		Length indicator of parameter
PropagatDelayValue	'0001'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_history_information_par (CHInf_val: OCT_2) Structured Type : Call_history_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callHistoryInfo		Parameter name
length	TSO_CALC_PAR_LENGTH()		Length indicator of parameter
PropagatDelayValue	CHInf_val		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_history_information_value (call_hist_inf:OCT_2) Structured Type : Call_history_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callHistoryInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PropagatDelayValue	call_hist_inf		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_offering_treatment_indicators Structured Type : Call_offering_treatment_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callOfferingTreatmentInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CallOfferedInd	'00'B		
Spare	'00000'B		
ExtensionInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_reference Structured Type : Call_reference Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callReference		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CRef_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_transfer_number Structured Type : Call_transfer_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferNumber		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		Nature of address indicator
OddEvenInd	'0'B		Odd/even indicator
ScreeningInd	'00'B		
AddrPresRestrictionInd	'00'B		
NumberingPlanInd	'001'B		Numbering plan indicator
Spare	'0'B		
AddrSignals	TSC_CPN_OUTG		Address signals
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_transfer_number_presentation_restricted Structured Type : Call_transfer_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferNumber		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEvenInd	'0'B		Even indicator
ScreeningInd	'01'B		network provided
AddrPresRestrictionInd	'01'B		Presentation restricted
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CT_NUMBER_A		Call transfer number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_transfer_reference Structured Type : Call_transfer_reference Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferReference		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CallTransferId	'00000000'B		Default Call transfer identity
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_transfer_reference2 Structured Type : Call_transfer_reference Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferReference		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CallTransferId	'00000001'B		Incremented Default Call transfer identity
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Call_transfer_treatment_indicators Structured Type : Call_transfer_treatment_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferTreatmentInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CallTransferredInd	'00'B		
Spare	'00000'B		
ExtensionInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Called_party_number Structured Type : Called_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'0'B		Even number of address signals
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
INNInd	'1'B		routing to internal network number not allowed
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Called_party_number_internat_even (val_CdPN: HEX_N) Structured Type : Called_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'0'B		Even number of address signals
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
INNInd	'0'B		routing to internal network number allowed
AddrSignals	val_CdPN		
Filler	–		NOTE: must be always –
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Called_party_number_internat_even_1 Structured Type : Called_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'0'B		odd number of address signals
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
INNInd	'1'B		routing to internal network number not allowed
AddrSignals	TSC_CPN_OUTG		
Filler	–		In the case of odd number '0000'
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Called_party_number_internat_odd (val_CdPN: HEX_N) Structured Type : Called_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'1'B		Odd number of address signals
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
INNInd	'0'B		routing to internal network number allowed
AddrSignals	val_CdPN		
Filler	–		Filler has to be added to address signals !
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Called_party_number_internat_odd_1 Structured Type : Called_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'1'B		odd number of addres signals
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
INNInd	'1'B		routing to internal network number not allowed
AddrSignals	'1345F0'H		
Filler	—		In the case of odd number '0000'
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_numbec_dss1_even_screening_ind_np_presentation_allowed Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000000'B		spare
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'000'B		spare
NIInd	'0'B		complete
AddrSignals	—		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A_address_not_available Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000000'B		national number 11
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'10'B		address not available
NumberingPlanInd	'000'B		ISDN numbering plan (E.164) 001
NIInd	'0'B		complete
AddrSignals	–		TSP_NB_A
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A_incomplete Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'1'B		incomplete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A_network_provided Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A_user_provided_not_verified Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'00'B		user provided, not verified
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A_with_own_country_code_network_provided Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A_OWN_COU NTRY_CODE_WITHOUT_P REFIX		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_A_with_own_country_code_without_prefix Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A_OWN_COU NTRY_CODE_WITHOUT_P REFIX		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_international_incomplete Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'1'B		incomplete
AddrSignals	TSC_CGPN_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_national Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_national_incomplete Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'1'B		incomplete
AddrSignals	TSC_CGPN_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_national_number Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_own_country_without_prefix Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A_OWN_COU NTRY_CODE_WITHOUT_P REFIX		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_prefix_and_address_ind_unknown Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000010'B		unknown
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A_OWN_COU NTRY_CODE		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_screening_ind_nw_provided Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000000'B		spare
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'000'B		spare
NIInd	'0'B		complete
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_even_screening_ind_up_verified_passed Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000000'B		spare
OddEven	'0'B		even
ScreeningInd	'00'B		user provided, verified and passed
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'000'B		spare
NIInd	'0'B		complete
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_internat_even (val_CgPN: HEX_N) Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	val_CgPN		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_party_number_no_address_signals Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000000'B		Spare
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentResInd	TSC_BUG_AdrPresResInd		address not available
NumberingPlanInd	'000'B		Spare
NIInd	'0'B		complete
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_partys_category Structured Type : Calling_partys_category Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
CallingPartysCategory	'00001010'B		Ordinary Calling Subscriber
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Calling_partys_category_o Structured Type : Calling_partys_category Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyCat		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CallingPartysCategory	'00001010'B		Ordinary Calling Subscriber
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicator (loc : BIT_4 ; value : BIT_7)			
Structured Type : Cause_indicators			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	loc		CCITT standardized coding last octet
Spare	'0'B		
CodingStandard	'00'B		
Ext1	'1'B		
Reserved	—		
Ext1a	—		
CauseValue	value		Extension indicator
Ext2	'1'B		
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicator_with_diags (loc : BIT_4 ; value : BIT_7 ; diags : OCT_N)			
Structured Type : Cause_indicators			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	loc		CCITT standardized coding last octet
Spare	'0'B		
CodingStandard	'00'B		
Ext1	'1'B		
Reserved	–		
Ext1a	–		Extension indicator
CauseValue	value		
Ext2	'1'B		
Diagnostics	diags		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'0000'B		User
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	—		
Ext1a	—		
CauseValue	'0010000'B		Normal call clearing
Ext2	'1'B		Extension indicator
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_Cause_value_111_protocol_error_unspecified Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	—		
Ext1a	—		
CauseValue	'1101111'B		No answer from user
Ext2	'1'B		Extension indicator
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_Cause_value_29_facility_rejected Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'1010'B		User
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0011101'B		Facility rejected
Ext2	'1'B		Extension indicator
Diagnostics	'1A'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_Cause_value_55_incomming_calls_barred_within_CUG Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0110111'B		No answer from user
Ext2	'1'B		Extension indicator
Diagnostics	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_Cause_value_87_user_not_member_of_CUG Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	—		
Ext1a	—		
CauseValue	'1010111'B		No answer from user
Ext2	'1'B		Extension indicator
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_102 Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	—		
Ext1a	—		
CauseValue	'1100110'B		Recovery on time expiry
Ext2	'1'B		Extension indicator
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_17 Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0010001'B		user busy
Ext2	'1'B		Extension indicator
Diagnostics	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_17_CCBS_not_possible Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0010001'B		User busy
Ext2	'1'B		Extension indicator
Diagnostics	'02'O		CCBS not Possible
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_17_CCBS_possible Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0010001'B		User busy
Ext2	'1'B		Extension indicator
Diagnostics	'01'O		CCBS Possible
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_18 Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0010010'B		No user responding
Ext2	'1'B		Extension indicator
Diagnostics	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_19 Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	—		
Ext1a	—		
CauseValue	'0010011'B		No answer from user
Ext2	'1'B		Extension indicator
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_21 Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	—		
Ext1a	—		
CauseValue	'0010101'B		Call rejected
Ext2	'1'B		Extension indicator
Diagnostics	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_34_CCBS_not_possible Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0100010'B		No circuit available
Ext2	'1'B		Extension indicator
Diagnostics	'02'O		CCBS not Possible
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_34_CCBS_possible Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont Care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0100010'B		No circuit available
Ext2	'1'B		Extension indicator
Diagnostics	'01'O		CCBS Possible
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_cause_user_busy Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'0000'B		User
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'0010001'B		user busy
Ext2	'1'B		Extension indicator
Diagnostics	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_default Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'????'B		Dont care
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'???????'B		Dont Care
Ext2	'1'B		Extension indicator
Diagnostics	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cause_indicators_message_type_not_implemented Structured Type : Cause_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_causeInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Location	'0000'B		User
Spare	'0'B		
CodingStandard	'00'B		CCITT standardized coding
Ext1	'1'B		last octet
Reserved	–		
Ext1a	–		
CauseValue	'1100001'B		message type non existent or not implemented
Ext2	'1'B		Extension indicator
Diagnostics	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_default Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'???'B		Unknown
RedirectionReason	'????'B		Unknown
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CD_during_alerting Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationSubscriptionOptions	'010'B		pres. allowed with redirection number
RedirectionReason	'0100'B		User Busy
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CD_imm_resp Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationSubscriptionOptions	'010'B		pres. allowed with redirection number
RedirectionReason	'0101'B		User Busy
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFB Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type length	TSC_callDiversionInfo TSO_CALC_PAR_LENGTH ()		Parameter name Length indicator of parameter
NotificationSubscriptionOptions	'010'B		pres. allowed with redirection number
RedirectionReason	'0001'B		User Busy
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFNRR Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'???'B		Unknown
RedirectionReason	'0010'B		No Reply
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFNRR_send Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'010'B		Presentation allowed with redirection number
RedirectionReason	'0010'B		No Reply
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFU_and_pres_allowed_without_RNb Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'011'B		pres. allowed with redirection number
RedirectionReason	'0011'B		unconditional
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFU_and_pres_not_allowed Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'001'B		pres. allowed with redirection number
RedirectionReason	'0011'B		unconditional
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFU_and_presentation_allowed Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'010'B		pres. allowed with redirection number
RedirectionReason	'0011'B		unconditional
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFU_and_restriction_allowed Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'010'B		pres. allowed with redirection number
RedirectionReason	'0011'B		unconditional
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cdiv_info_with_CFU_and_unknown Structured Type : Call_diversion_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callDiversionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationSubscriptionOptions	'000'B		pres. allowed with redirection number
RedirectionReason	'0011'B		unconditional
Spare	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Cic_par (CICnr: BIT_12) Structured Type : Circuit_identification_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
CIC	CICnr		
Spare	'0000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Circuit_group_supervision_message_type_indicator Structured Type : Circuit_group_supervision_message_type_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
Type	'00'B		maintenance oriented
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Circuit_group_supervision_message_type_indicator_MO			
Structured Type : Circuit_group_supervision_message_type_indicator			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
Type	'00'B		maintenance oriented
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Circuit_group_supervision_message_type_indicator_par (type:BIT_2)			
Structured Type : Circuit_group_supervision_message_type_indicator			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
Type	type		received as parameter
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Circuit_state_indicator			
Structured Type : Circuit_state_indicator			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
CircuitStateIndicator	'0C'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Closed_user_group_interlock_code Structured Type : Closed_user_group_interlock_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_cUGInterlockCode		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGIC_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Closed_user_group_interlock_code_with_CUG_interlock_code_Ntwkld_international Structured Type : Closed_user_group_interlock_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_cUGInterlockCode		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGIC_contents	TSC_CUGICcontents_inter national		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Closed_user_group_interlock_code_with_CUG_interlock_code_Ntwkld_national Structured Type : Closed_user_group_interlock_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_cUGInterlockCode		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGIC_contents	TSC_CUGICcontents_natio nal		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Conference_treatment_indicators Structured Type : Conference_treatment_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_conferenceTreatmentInd		Parameter name
length	TSO_CALC_PAR_LENGTH()		Length indicator of parameter
ConfAcceptanceInd	'00'B		
Spare	'00000'B		
ExtensionInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CPN_OUTG		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_ISDN Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'01'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSP_NB_B		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_MSN Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'01'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSP_NB_B_MSN		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_address_na Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'10'B		Address not available
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_available Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		
OddEven	'1'B		
ScreeningInd	'11'B		Network provided
AddrPresentRestInd	'01'B		Presentation restricted
NumberingPlanInd	'001'B		
Spare	'0'B		
AddrSignals	'123456F0'H		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_available_discarded Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		Network provided Presentation restricted
OddEven	'1'B		
ScreeningInd	'11'B		
AddrPresentRestInd	'01'B		
NumberingPlanInd	'001'B		
Spare	'0'B		
AddrSignals	'1345F0'H		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_network_provided_with_own_country_code			
Structured Type : Connected_number			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'11'B		Network provided
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		Connected Number with own country code
AddrSignals	TSC_CON_B_OWN_COUN TRY_CODE		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_not_available			
Structured Type : Connected_number			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000000'B		Network provided Addres not available
OddEven	'0'B		
ScreeningInd	'11'B		
AddrPresentRestInd	'10'B		
NumberingPlanInd	'000'B		
Spare	'0'B		
AddrSignals	—		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_np			
Structured Type : Connected_number			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSP_NB_B		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_pr Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'01'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSP_NB_B		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_with_foreign_country_code Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_OWN_COUNTRY_CODE_WITHOUT_PREFIX		Connected Number with foreign country code
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_with_own_country_code Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_INTERNATIO NAL_WITHOUT_PREFIX		Connected Number with own country code
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connected_number_with_prefix Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		unknown
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_OWN_COUN TRY_CODE		Connected Number with Prefix
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Connection_request Structured Type : Connection_request Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectionRequest		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ConRq_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Continuity_indicators			
Structured Type : Continuity_indicators			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
ContInd_field	'1'B		continuity check successful
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Continuity_indicators_fail Structured Type : Continuity_indicators Derivation Path : c_Continuity_indicators_succesfull. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
ContInd_field	'0'B		continuity check failure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Continuity_indicators_sucesfull Structured Type : Continuity_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
ContInd_field	'1'B		continuity check successful
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Correlation_id Structured Type : Correlation_id Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_correlationId		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CorrelationId	'FFFFFF'O		Dummy value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Display_information Structured Type : Display_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_displayInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
DisplayInfo	'FF'O		Dummy value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Distributed_dynamic_routing_indicators			
Structured Type : Distributed_dynamic_routing_indicators			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_distrDynRoutInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
AutoReroutingInd	'0'B		
EventDepRoutingInd	'0'B		
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Echo_control_information			
Structured Type : Echo_control_information			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_echoControlInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
OEchoRsl	'00'B		Outgoing half echo control device not included
IEchoRsl	'00'B		Incoming half echo control device not included
OEchoRql	'00'B		No information
IEchoRql	'00'B		No information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Echo_control_information_Echo_control_devices_not_included Structured Type : Echo_control_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_echoControlInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
OEchoRsl	'01'B		Outgoing half echo control device not included
IEchoRsl	'01'B		Incoming half echo control device not included
OEchoRql	'01'B		Outgoing half echo control device activation request
IEchoRql	'01'B		Incoming half echo control device not included
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Event_information			
Structured Type : Event_information			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
EventInd	'0000010'B		Progress
EventPresentRestrInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Event_information_Alerting			
Structured Type : Event_information			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
EventInd	'0000001'B		Alerting
EventPresentRestrInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Event_information_CFB			
Structured Type : Event_information			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
EventInd	'0000100'B		Progress
EventPresentRestrInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Event_information_Progress			
Structured Type : Event_information			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
EventInd	'0000010'B		Progress
EventPresentRestrInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Event_information_pars (EvInd:BIT_7;EvPri:BIT_1) Structured Type : Event_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
EventInd	EvInd		Event Indicator
EventPresentRestrInd	EvPri		Event Presentation Restricted Indicator
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Event_information_progress			
Structured Type : Event_information			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
EventInd	'0000010'B		Progress
EventPresentRestrInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Facility_indicator			
Structured Type : Facility_indicator			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
FacilityInd	'02'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_GVNS Structured Type : Forward_GVNS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_forwardGVNS		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
OPSP_Len	'0011'B		
OPSP_Spare	'000'B		
OPSP_OddEven	'1'B		
OPSP_AddSign	'11111'H		
OPSP_Filler	'0'H		Used to fill in '0000' in case of odd number of digits
GUG_Len	'0011'B		
GUG_Spare	'000'B		
GUG_OddEven	'1'B		
GUG_AddSign	'22222'H		
GUG_Filler	'0'H		Used to fill in '0000' in case of odd number of digits
TNRN_Len	'0100'B		
TNRN_NumPlanInd	'001'B		
TNRN_OddEven	'1'B		
TNRN_NatOfAddInd	'0000100'B		
TNRN_Spare	'0'B		
TNRN_AddSign	'33333'H		
TNRN_Filler	'0'H		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'1'B		international call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'00'B		ISUP preferred all the way
ISDNAccessInd	'1'B		ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_interworking Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'1'B		international call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'1'B		interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'01'B		
ISDNAccessInd	'1'B		ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_ISUPPreferenceInd_par (local_par: BIT_2) Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'1'B		international call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	local_par		ISUP preferred all the way
ISDNAccessInd	'1'B		ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_internat_call_ISUP_required Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'1'B		international call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'10'B		ISUP required
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_international_call Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'1'B		international call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'00'B		ISUP preferred all the way
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_national_call Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'0'B		national call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'00'B		ISUP preferred all the way
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_national_call_ISDN Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'0'B		national call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'00'B		ISUP preferred all the way
ISDNAccessInd	'1'B		ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_national_call_ISUPPref_10 Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'0'B		national call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'10'B		ISUP required all the way
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_national_call_ISUP_not_required Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'0'B		national call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'01'B		ISUP not required
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_national_call_ISUP_preferred Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'0'B		national call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'00'B		ISUP preferred
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Forward_call_indicators_national_call_ISUP_required Structured Type : Forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NatIntCallInd	'0'B		national call
EndToEndMethInd	'00'B		no end-to-end method available
InterworkInd	'0'B		no interworking encountered
EndToEndInfoInd	'0'B		no end-to-end information available
ISUPInd	'1'B		ISUP used all the way
ISUPPreferenceInd	'10'B		ISUP required
ISDNAccessInd	'0'B		non-ISDN
SCCPMethodInd	'00'B		no indication
Spare	'0'B		
Reserved	'00'B		
VPNCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Freephone_indicators Structured Type : Freephone_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_freePhoneInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FreephoneInd	'1'B		Freephone call
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_digits Structured Type : Generic_digits Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericDigits		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TypeOfDigits	'00011'B		
EncodingScheme	'011'B		
Digits	'332211'H		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_call_diverting Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1111011'B		Call is diverting
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_conf_disc Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1000011'B		Conference Disconnected
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_conf_est Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1000010'B		Conference Established
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_ct_active Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1101010'B		Call Transfer active
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_ct_alerting Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1101001'B		Call Transfer active
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_hold Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1111001'B		Call Hold
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_isolated Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1000101'B		Isolated
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_other_party_add Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1000100'B		Other Party Added
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_other_party_disc Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1001010'B		Other Party Disconnected
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_other_party_isolated Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationInd	'1000111'B		Other Party Isolated
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_other_party_reattached Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationInd	'1001000'B		Other Party Reattached
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_other_party_split Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationInd	'1001001'B		Other Party Split
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_reattached Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1000110'B		Reattached
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_resume Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationInd	'0000001'B		user resumed
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_retrieve Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1111010'B		Call Retrieve
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_suspend Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
NotificationInd	'0000000'B		user suspended
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_ind_waiting Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1100000'B		Call Waiting
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_notification_indicator Structured Type : Generic_notification_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNotificationInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NotificationInd	'1100000'B		Call is a waiting call
ExtInd	'1'B		Last octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000101'B		Additional connected number
NatureOfAddrInd	'0000001'B		Subscriber number
Odd_Even	'0'B		even
ScreeningInd	'11'B		Network provided
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSC_CPN_INCO_B		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number_AddrPresentRestInd_01 Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000101'B		Additional connected number
NatureOfAddrInd	'0000011'B		National number
Odd_Even	'1'B		
ScreenigInd	'11'B		
AddrPresentRestInd	'01'B		
NumberingPlanInd	'001'B		
NIInd	'0'B		
AddrSignals	TSC_CPN_INCO_B_FILLE R_CORRECT		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number_national_user_provided_not_verified Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000110'B		Additional connected number
NatureOfAddrInd	'0000011'B		National number
Odd_Even	'0'B		even
ScreenigInd	'00'B		User provided, not verified
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number_user_provided_not_verified_international_without_prefix Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000110'B		Additional calling party number
NatureOfAddrInd	'0000100'B		International number
Odd_Even	'0'B		even
ScreenigInd	'00'B		User provided, not verified
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSC_CGPN_A_INTERNATI ONAL		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number_with_connected_number_with_own_country_code Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000101'B		Additional connected number
NatureOfAddrInd	'0000100'B		international number
Odd_Even	'0'B		even
ScreenigInd	'00'B		User provided, not verified
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSC_ADD_TSC_CON_B_O WN_COUNTRY_CODE_WI THOUT_PREFIX		Additional Connected number with own country code and without prefix
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number_with_national_connected_number Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000101'B		Additional connected number
NatureOfAddrInd	'0000011'B		National number
Odd_Even	'0'B		even
ScreenigInd	'00'B		User provided, not verified
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSC_ADD_TSC_CON_B_N ATIONAL		Additional national Connected number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_number_with_own_country_code_user_provided_not_verified_international_without_p refix Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000110'B		Additional calling party number
NatureOfAddrInd	'0000100'B		international number
Odd_Even	'0'B		even
ScreenigInd	'00'B		User provided, not provided
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSC_CGPN_A_OWN_COU NTRY_CODE_WITHOUT_P REFIX		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Generic_reference Structured Type : Generic_reference Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericReference		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
GenRef_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Information_indicators Structured Type : Information_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
CallingPartyAddrResplnd	'00'B		
HoldProvidedInd	'0'B		
Spare1	'00'B		
CallingPartyCatResplnd	'1'B		
Reserved1	'0'B		
SolicitedInfoInd	'1'B		
Spare2	'0000'B		
Reserved2	'0000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Information_request_indicators Structured Type : Information_request_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
CallingPartyAddrRequestInd	'1'B		
HoldingInd_or_Spare	'0'B		
Spare1	'0'B		
CallingPartyCatRequestInd	'0'B		
Reserved1	'0'B		
Spare2	'00'B		
MCIDReqInd_or_Spare	'0'B		
Spare3	'0000'B		
Reserved2	'0000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_International_call_transfer_number Structured Type : Call_transfer_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferNumber		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEvenInd	'0'B		Even indicator
ScreeningInd	'11'B		network provided
AddrPresRestrictionInd	'00'B		Presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_INTERNATIONAL_CT_ NUMBER_A		Call transfer number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_International_call_transfer_number_of_own_CC Structured Type : Call_transfer_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferNumber		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEvenInd	'0'B		Even indicator
ScreeningInd	'11'B		network provided
AddrPresRestrictionInd	'00'B		Presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_INTERNATIONAL_CT_ NUMBER_A_OWN_CC		Call transfer number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_International_calling_party_number_even_A_address_not_available Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000000'B		spare
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'10'B		address not available
NumberingPlanInd	'000'B		spare
NIInd	'0'B		complete
AddrSignals	–		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_International_calling_party_number_even_without_prefix_user_provided_passed Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'00'B		presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSC_CGPN_A_INTERNATI ONAL		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_International_connected_number Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_INTERNATIO NAL		International Connected Number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Location_number Structured Type : Location_number Derivation Path : Encoding Variation : Comments : 3.30 / Q.763 FS : 2.3.3.41 / 61/155 17-CRT 212 31 Uen Rev. A			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_locationNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	–		Nature of address indicator
OddEven	–		Odd/Even indicator
ScreeningInd	–		Screening indicator
AddrPresentRestInd	–		Address presentation restricted indicator
NumberingPlanInd	–		Numbering plan indicator
INNInd	–		Internal network number indicator
AddrSignals	–		Address signals
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Loop_prevention_indicators Structured Type : Loop_prevention_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_loopPreventionInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Type	'0'B		Loop Prevention Request
ResponseInd_or_Spare	'0000000'B		Spare
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Loop_prevention_response_insufficient_information Structured Type : Loop_prevention_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_loopPreventionInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Type	'1'B		Loop Prevention Response
ResponseInd_or_Spare	'0000000'B		Insufficient Information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Loop_prevention_response_no_loop_exists Structured Type : Loop_prevention_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_loopPreventionInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Type	'1'B		Loop Prevention Response
ResponseInd_or_Spare	'0000001'B		No Loop exists
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Loop_prevention_simultaneous_transfer Structured Type : Loop_prevention_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_loopPreventionInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Type	'1'B		Loop Prevention Response
ResponseInd_or_Spare	'0000010'B		Simultaneous Transfer
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MCID_request_indicators Structured Type : MCID_request_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_MCIDReqInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
MCIDReqInd	'0'B		
HoldingInd	'0'B		
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MCID_request_indicators_RI_HO Structured Type : MCID_request_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_MCIDReqInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
MCIDReqInd	'1'B		
HoldingInd	'0'B		
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MCID_response_indicators Structured Type : MCID_response_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_MCIDResplnd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
MCIDResplnd	'0'B		
HoldingProvInd	'0'B		
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MCID_response_indicators_RI_HPI Structured Type : MCID_response_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_MCIDRespInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
MCIDRespInd	'1'B		
HoldingProvInd	'0'B		
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MCI_for_IDR Structured Type : Message_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_messageCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TransitIntermedExchInd	'0'B		
ReleaseCallInd	'0'B		
SendNotificationInd	'0'B		
DiscardMessageInd	'0'B		
PassOnNotPossibleInd	'1'B		
Spare1	'00'B		
ExtInd1	'1'B		
Spare2	–		
ExtInd2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MCI_for_IRS Structured Type : Message_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_messageCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TransitIntermedExchInd	'0'B		
ReleaseCallInd	'0'B		
SendNotificationInd	'0'B		
DiscardMessageInd	'0'B		
PassOnNotPossibleInd	'1'B		
Spare1	'00'B		
ExtInd1	'1'B		
Spare2	–		
ExtInd2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MLPP_precedence Structured Type : MLPP_precedence Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_mLPPprecedence		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
MLPPpre_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Message_compatibility_information Structured Type : Message_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_messageCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TransitIntermedExchInd	'0'B		
ReleaseCallInd	'0'B		
SendNotificationInd	'0'B		
DiscardMessageInd	'0'B		
PassOnNotPossibleInd	'1'B		
Spare1	'00'B		
ExtInd1	'1'B		
Spare2	–		
ExtInd2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Message_compatibility_information_ABCDE(v_a,v_b,v_c,v_d,v_e:BIT_1) Structured Type : Message_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_messageCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TransitIntermedExchInd	v_a		
ReleaseCallInd	v_b		
SendNotificationInd	v_c		
DiscardMessageInd	v_d		
PassOnNotPossibleInd	v_e		
Spare1	'00'B		
ExtInd1	'1'B		
Spare2	–		
ExtInd2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Meter_pulse_indicator Structured Type : Meter_pulse_indicator Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_meterPulseInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
MeterPulse	'01'O		
Reserved	'00'O		Reserved optional octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_National_call_transfer_number Structured Type : Call_transfer_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callTransferNumber		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEvenInd	'0'B		Even indicator
ScreeningInd	'11'B		network provided
AddrPresRestrictionInd	'00'B		Presentation allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CT_NUMBER_A		Call transfer number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_National_connected_number Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_NATIONAL		National Connected Number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_National_connected_number_network_provided Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national Number
OddEven	'0'B		Even
ScreeningInd	'11'B		Network provided
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_NATIONAL		National Connected Number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_National_connected_number_user_provided_passed Structured Type : Connected_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_connectedNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national Number
OddEven	'0'B		Even
ScreeningInd	'01'B		User provided, verified and passed
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CON_B_NATIONAL		National Connected Number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_National_generic_number_user_provided_not_verified Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000110'B		Additional calling party number
NatureOfAddrInd	'0000011'B		National number
Odd_Even	'0'B		even
ScreenigInd	'00'B		User provided, not verified
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Nature_of_connection_indicators Structured Type : Nature_of_connection_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
SatelliteInd	'00'B		no satellite circuit in the connection
ContinuityCheckInd	'00'B		Continuity check not required
EchoControlDevInd	'0'B		outgoing half echo control device not included
Spare	'000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Nature_of_connection_indicators_SatelliteInd (SatNb:BIT_2) Structured Type : Nature_of_connection_indicators Derivation Path : c_Nature_of_connection_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
SatelliteInd	SatNb		passed number of satellite circuits
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Nature_of_connection_indicators_SatelliteInd_10 Structured Type : Nature_of_connection_indicators Derivation Path : c_Nature_of_connection_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
SatelliteInd	'10'B		passed number of satellite circuits
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Network_call_reference Structured Type : Network_call_reference Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_netwCallRef		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CallIdentity	'FFFFFF'O		Dummy
SwitchId	'11111111111111'B		Dummy
Spare	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Network_specific_facility Structured Type : Network_specific_facility Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_netwSpecificFacility		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
LenOfNetwId	–		
NetworkIdPlan	–		
TypeofNetworkId	–		
One	–		
NetworkId	–		The first bit in the octet is Spare, meaning no octet should a value higher than 7F.
NetworkSpecificFacility	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_OBCI_CDmo Structured Type : Optional_backward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optBackwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
InBandInfoInd	'0'B		No Inband info
CallDiversionMayOccurInd	'1'B		Call Diversion may occur
SimpleSegmentationInd	'0'B		No Segmentation
Reserved	'000'B		
TimeSupervBeforeAnsInd	'0'B		
LastPartyRelInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_OFCl_with_CUG_with_og_access_not_allowed Structured Type : Optional_forward_call_indicators Derivation Path : c_Optional_forward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGCallInd	'11'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_backward_call_indicators Structured Type : Optional_backward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optBackwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
InBandInfoInd	'0'B		
CallDiversionMayOccurInd	'1'B		
SimpleSegmentationInd	'0'B		
Reserved	'000'B		
TimeSupervBeforeAnsInd	'0'B		
LastPartyRelInd	'0'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_forward_call_indicators Structured Type : Optional_forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGCallInd	'00'B		non-CUG call
SimpleSegmentationInd	'0'B		no additional information will be sent
Spare	'0000'B		
ConnLineReqInd	'0'B		not requested
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_forward_call_indicators_COLP_request Structured Type : Optional_forward_call_indicators Derivation Path : c_Optional_forward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ConnLineReqInd	'1'B		COLP request
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_forward_call_indicators_COLRq1_1 Structured Type : Optional_forward_call_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGCallInd	'00'B		non-CUG call
SimpleSegmentationInd	'0'B		no additional information will be sent
Spare	'0000'B		
ConnLineReqInd	'1'B		requested
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_forward_call_indicators_CUGCallInd_00 Structured Type : Optional_forward_call_indicators Derivation Path : c_Optional_forward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGCallInd	'00'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_forward_call_indicators_CUGCallInd_10 Structured Type : Optional_forward_call_indicators Derivation Path : c_Optional_forward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGCallInd	'10'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Optional_forward_call_indicators_CUGCallInd_11 Structured Type : Optional_forward_call_indicators Derivation Path : c_Optional_forward_call_indicators. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_optForwardCallInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
CUGCallInd	'11'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CPN_INCO_B		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_as_address_not_available_national_send Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'10'B		Address not available
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_NATIONA L		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_international_foreign_CC_send Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		Interational number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_INTERNA TIONAL_FOREIGN_CC		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_international_own_CC_send Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		Interational number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_INTERNA TIONAL_OWN_CC		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_international_send Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_INTERNA TIONAL_OWN_CC		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_international_with_prefix_send Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_INTERNA TIONAL_WITH_PREFIX		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_national Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	'**H		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_national_send Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_NATIONA L		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_national_sendB Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSP_NB_B		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Original_called_number_presentation_restricted Structured Type : Original_called_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_originalCalledNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		Even
Spare_1	'00'B		
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare_2	'0'B		
AddrSignals	TSC_CDIV_ORIGINAL_CA LLED_NUMBER_NATIONA L		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Origination_ISC_point_code Structured Type : Origination_ISC_point_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_origISCPointCode		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
OrISC_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_CTNb_and_generic_notification_indicator Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'01000101'B		Upgraded parameter call transfer number
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	'00101100'B		Upgraded parameter for generic notification
InstructIndSecond	'1000000'B		all instruction indicators for parameter 2
ExtInd2	'1'B		Extension indicator
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_EchoControllInfo Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00110111'B		Echo Control Information
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter 2
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		Upgraded Parameter 3
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_MCID_request_indicators Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00111011'B		Upgraded parameter MCID request indicators
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter 2
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_MCID_response_indicators Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00111100'B		Upgraded parameter MCID response indicators
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter 2
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_PDC_and_generic_number Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'11000000'B		Upgraded parameter generic number
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_call_transfer_reference Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'01000011'B		Call Transfer Reference
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_cdiv_info Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00110110'B		Call Diversion
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter 2
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		Upgraded Parameter 3
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_cdiv_info_and_gen_notification_ind Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00101100'B		Generic notification indicator in CDIV
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	'00110110'B		Call Diversion
InstructIndSecond	'1000000'B		all instruction indicators for parameter 2
ExtInd2	'1'B		Extension indicator
ThirdUpgradParam	–		Upgraded Parameter 3
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_generic_notification_indicator Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00101100'B		Upgraded parameter generic notification indicator in ECT
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter 2
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_generic_number Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'11000000'B		Upgraded parameter generic number
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_redirection_num_rest Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'01000000'B		Redirection number Restriction
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		Upgraded parameter 2
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		Extension indicator
ThirdUpgradParam	–		Upgraded parameter 3
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCI_for_redirection_num_rest_and_generic_number Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'11000000'B		Upgraded parameter generic number
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	'01000000'B		Redirection Number Restriction
InstructIndSecond	'1000000'B		all instruction indicators for parameter 2
ExtInd2	'1'B		
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Param_compatibility_info_transit_interpretation_discard_param Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'11000000'B		Upgraded parameter generic number
InstructIndFirst	'1010000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Parameter_compatibility_information Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00110001'B		Upgraded parameter name
InstructIndFirst	'1010100'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Parameter_compatibility_information_CUG Structured Type : Parameter_compatibility_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_parameterCompatInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
FirstUpgradParam	'00011010'B		Upgraded parameter name CUG
InstructIndFirst	'1000000'B		all instruction indicators for parameter 1
ExtInd1	'1'B		Extension indicator
SecondUpgradParam	–		
InstructIndSecond	–		all instruction indicators for parameter 2
ExtInd2	–		
ThirdUpgradParam	–		
InstructIndThird	–		all instruction indicators for parameter 3
ExtInd3	–		
FourthUpgradParam	–		
InstructIndFourth	–		all instruction indicators for parameter 4
ExtInd4	–		
FifthUpgradParam	–		
InstructIndFifth	–		all instruction indicators for parameter 5
ExtInd5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Presentation_restricted_calling_party_number_even Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Presentation_restricted_calling_party_number_even_A Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'01'B		user provided, verified and passed
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Presentation_restricted_calling_party_number_even_A_nw_provided Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Presentation_restricted_calling_party_number_even_nw_provided Structured Type : Calling_party_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_callingPartyNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		national number
OddEven	'0'B		even
ScreeningInd	'11'B		network provided
AddrPresentRestInd	'01'B		presentation restricted
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
NIInd	'0'B		complete
AddrSignals	TSP_NB_A		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Presentation_restricted_generic_number_user_provided_not_verified Structured Type : Generic_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_genericNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NumQualifier	'00000110'B		Additional Calling party number
NatureOfAddrInd	'0000011'B		national number
Odd_Even	'0'B		even
ScreeningInd	'00'B		User provided, not verified
AddrPresentRestInd	'01'B		Presentation Restricted
NumberingPlanInd	'001'B		ISDN numbering plan
NIInd	'0'B		
AddrSignals	TSP_NB_A		
Filler	-		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Propagation_delay_counter Structured Type : Propagation_delay_counter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_propDelayCounter		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PropagationDelayValue	'0000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Propagation_delay_counter_8ms Structured Type : Propagation_delay_counter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_propDelayCounter		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PropagationDelayValue	'0008'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Propagation_delay_counter_param (delay: OCT_2) Structured Type : Propagation_delay_counter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_propDelayCounter		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PropagationDelayValue	delay		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Propagation_delay_counter_value (delay:OCT_2) Structured Type : Propagation_delay_counter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_propDelayCounter		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PropagationDelayValue	delay		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Range_and_status Structured Type : Range_and_status Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Range	'1D'O		30 affected CICs
Status	'00000000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Range_and_status_noStatus Structured Type : Range_and_status Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Range	'1D'O		30 affected CICs
Status	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Range_and_status_range(RECrange:OCT_1) Structured Type : Range_and_status Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Range	RECrange		
Status	'00000000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Range_and_status_range_status(RECrange:OCT_1;RECstatus:OCT_1_32)			
Structured Type : Range_and_status			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Range	RECrange		
Status	RECstatus		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		User provided
OddEven	'0'B		
ScreeningInd	'01'B		
AddrPresentRestInd	'00'B		ISDN numbering plan (E.164)
NumberingPlanInd	'001'B		
Spare	'0'B		
AddrSignals	TSC_CPN_OUTG		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_as_address_not_available_national_send Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		
ScreeningInd	'00'B		
AddrPresentRestInd	'10'B		Address not available
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_NATIONAL		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_international_ForeignCC Structured Type : Redirecting_number Derivation Path : c_Redirecting_number. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International
AddrSignals	TSC_RedirectingNumberFor eignCC		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_international_foreign_CC_send Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		
ScreeningInd	'00'B		There should be no screening indicator . This is a spare value.
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_FOREIGN_CC		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_international_own_CC_send Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		
ScreeningInd	'00'B		There should be no screening indicator . This is a spare value.
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_OWN_CC		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_international_with_address_not_available_send Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		
ScreeningInd	'00'B		There should be no screening indicator . This is a spare value.
AddrPresentRestInd	'10'B		Address not available
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_OWN_CC		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_international_with_prefix_send Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		international number
OddEven	'0'B		
ScreeningInd	'00'B		There should be no screening indicator . This is a spare value.
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_WITH_PREFIX		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_national Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		
ScreeningInd	'00'B		There should be no screening indicator . This is a spare value.
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	'**H		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_national_ForeignCC_prefix Structured Type : Redirecting_number Derivation Path : c_Redirecting_number. Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
AddrSignals	TSC_RedirectingNumberFor eignCC_prefix		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirecting_number_national_send Structured Type : Redirecting_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectingNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National number
OddEven	'0'B		
ScreeningInd	'00'B		There should be no screening indicator . This is a spare value.
AddrPresentRestInd	'00'B		Presentation Allowed
NumberingPlanInd	'001'B		ISDN numbering plan (E.164)
Spare	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_NATIONAL		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_information Structured Type : Redirection_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RedirectionInd	'100'B		Call diversion, all redirection information presentation restricted
Spare1	'0'B		
OriginalRedirectionReason	'0000'B		Unknown / not available
RedirectionCounter	'001'B		Number of diversions the call has undergone
Spare2	'0'B		
RedirectingReason	'0000'B		Unknown / not available
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_information_parCNT (redirection_count : BIT_3) Structured Type : Redirection_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RedirectionInd	'011'B		Call diversion
Spare1	'0'B		
OriginalRedirectionReason	'????'B		Dont Care
RedirectionCounter	redirection_count		Number of diversions the call has undergone
Spare2	'0'B		
RedirectingReason	'????'B		Dont Care
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_information_send (redirection_count : BIT_3) Structured Type : Redirection_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RedirectionInd	'011'B		Call diversion
Spare1	'0'B		
OriginalRedirectionReason	'0000'B		Unknown
RedirectionCounter	redirection_count		Number of diversions the call has undergone
Spare2	'0'B		
RedirectingReason	'0000'B		Unknown
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_information_with_CFB (redirection_count : BIT_3) Structured Type : Redirection_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RedirectionInd	'011'B		Call diversion
Spare1	'0'B		
OriginalRedirectionReason	'????'B		Dont Care
RedirectionCounter	redirection_count		Number of diversions the call has undergone
Spare2	'0'B		
RedirectingReason	'0001'B		User busy
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_information_with_CFNr (redirection_count : BIT_3) Structured Type : Redirection_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RedirectionInd	'011'B		Call diversion
Spare1	'0'B		
OriginalRedirectionReason	'????'B		Dont Care
RedirectionCounter	redirection_count		Number of diversions the call has undergone
Spare2	'0'B		
RedirectingReason	'0010'B		No Reply
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_information_with_CFU (redirection_count : BIT_3) Structured Type : Redirection_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RedirectionInd	'011'B		Call diversion
Spare1	'0'B		
OriginalRedirectionReason	'????'B		Dont Care
RedirectionCounter	redirection_count		Number of diversions the call has undergone
Spare2	'0'B		
RedirectingReason	'0011'B		Unconditional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		
INNInd	'0'B		
AddrSignals	TSC_CPN_INCO_B		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number2_national_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSP_NB_D2		Same constant being used for redirecting number and redirection number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number3_national_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSP_NB_D3		Same constant being used for redirecting number and redirection number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number4_national_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSP_NB_D4		Same constant being used for redirecting number and redirection number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_international_foreign_CC_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_FOREIGN_CC		Same constant being used for redirecting number and redirection number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_international_own_CC_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_OWN_CC		Same constant being used for redirecting number and redirection number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_international_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL		Same constant being used for redirection number and redirecting number
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_international_with_prefix_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000100'B		International
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_INTERNATION AL_WITH_PREFIX		Same constant being used for redirecting number and redirection number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_national Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	**H		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_national_after_second_diversion Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	'**H		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_national_after_second_diversion_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_NATIONAL		
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_national_send Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSC_CDIV_REDIRECTING _NUMBER_NATIONAL		Same constant being used for redirecting number and redirection number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_national_send_second Structured Type : Redirection_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectionNum		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NatureOfAddrInd	'0000011'B		National
OddEven	'0'B		
Spare	'0000'B		
NumberingPlanInd	'001'B		ISDN Numbering (E.164)
INNInd	'0'B		
AddrSignals	TSP_NB_D		Same constant being used for redirecting number and redirection number
Filler	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_presentation_allowed Structured Type : Redirection_number_restriction Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectNumRestriction		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PresRestInd	'00'B		Allowed
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_presentation_rest Structured Type : Redirection_number_restriction Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectNumRestriction		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PresRestInd	'01'B		Restricted
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_restriction Structured Type : Redirection_number_restriction Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectNumRestriction		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PresRestInd	'00'B		
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_restriction_allowed Structured Type : Redirection_number_restriction Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectNumRestriction		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PresRestInd	'00'B		Allowed
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Redirection_number_restriction_restricted Structured Type : Redirection_number_restriction Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_redirectNumRestriction		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
PresRestInd	'01'B		Restricted
Spare	'000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Remote_operations Structured Type : Remote_operations Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_remoteOperations		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
RemOp_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Route_identity Structured Type : Route_identity Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_routelidentity		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Routelidentity	'FFFF'O		Dummy
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SCF_id Structured Type : SCF_id Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_SCFId		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
SCFId	–		The SCF id information is not interpreted by isup, hence it is transferred tranSparently through isup.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Service_activation Structured Type : Service_activation Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_serviceActivation		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ServAct_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Service_activation_call_transfer Structured Type : Service_activation Derivation Path : Encoding Variation : Comments : ok			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_serviceActivation		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
ServAct_contents	'330101'O		Parameter_type '00110011'B length '01'O Feat_code '00000001'B
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Signalling_point_code Structured Type : Signalling_point_code Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_accessDeliveryInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
SPC_contents	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Subsequent_number_Filler_correct Structured Type : Subsequent_number Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Spare	'0000000'B		
OddEven	'1'B		
AddrSignals	TSC_CPN_INCO_B_PART2		
Filler	–		correct filler
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Subsequent_number_par (val_SubNb: HEX_N)			
Structured Type : Subsequent_number			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
length	TSO_CALC_VAR_LENGTH ()		Length indicator of parameter
Spare	'0000000'B		
OddEven	—		
AddrSignals	val_SubNb		
Filler	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Suspend_resume_indicators			
Structured Type : Suspend_resume_indicators			
Derivation Path :			
Encoding Variation :			
Comments : 3.52 / Q.763 FS : 2.3.3.65 / 61/155 17–CRT 212 31 Uen Rev. A			
Element Name	Element Value	Element Encoding	Comments
SUSRESInd	–		Suspend/resume indicator
Spare	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Suspend_resume_indicators_ntw_init			
Structured Type : Suspend_resume_indicators			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
SUSRESInd	'1'B		network initiated
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Suspend_resume_indicators_user_init			
Structured Type : Suspend_resume_indicators			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
SUSRESInd	'0'B		user initiated
Spare	'0000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Tariff_indicator			
Structured Type : Tariff_indicator			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_tariffIndicator		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TariffInd	'01'O		
Reserved	'00'O		Reserved optional octet
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transit_network_selection			
Structured Type : Transit_network_selection			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_transNetSel		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
NetIdPlan	—		
TypeOfNetId	—		
OddEvenInd	—		
NetId	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transmission_medium_requirement Structured Type : Transmission_medium_requirement Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
TMR_field	'00000000'B		Speech
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transmission_medium_requirement_3_1khz_audio Structured Type : Transmission_medium_requirement Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
TMR_field	'00000011'B		3.1 khz audio
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transmission_medium_requirement_64kbit_unrestricted Structured Type : Transmission_medium_requirement Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
TMR_field	'00000010'B		64 kbit/s unrestricted
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transmission_medium_requirement_prime Structured Type : Transmission_medium_requirement_prime Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_transMediumReqPrime		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TMRp_field	'00000000'B		speech
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transmission_medium_requirement_speech			
Structured Type : Transmission_medium_requirement			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
TMR_field	'00000000'B		Speech
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Transmission_medium_used			
Structured Type : Transmission_medium_used			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_transMediumUsed		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
TMU_field	'00000000'B		Speech
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_Unknown_parameter			
Structured Type : Unknown_parameter			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_unknown		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
unkn_par_contents	'55'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_User_service_information Structured Type : User_service_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userServiceInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
InfTrC	'00000'B		Speech
CodS	'00'B		CCITT standardized coding
Extl_1	'1'B		
InfTR	'10000'B		64 kbit/s
TrMod	'00'B		Circuit mode
Extl_2	'1'B		
RatMul	–		
Extl_3	–		
UInf1	'00011'B		G.711 A–law
Lay1	'01'B		
Extl_4	'1'B		last octet for Layer 1
UsrRate	–		
Negot	–		
SynAsyn	–		
Extl_5	–		
Spare_1	–		
FICtrRx	–		
FICtrTx	–		
NICRx	–		
NICTx	–		
IntRate	–		
Extl_6	–		
Spare_2	–		
InBndNeg	–		
Ass	–		
LLINeg	–		
Mode	–		
MultFr	–		
Hdr	–		
Extl_7	–		
PrtY	–		
NDatBit	–		
NStpBit	–		
Extl_8	–		
MdmTyp	–		
DupMod	–		
Extl_9	–		
UInf2	–		
Lay2	–		
Extl_10	–		

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
UInf3	–		
Lay3	–		
Extl_11	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_User_service_information_prime Structured Type : User_service_information_prime Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userServiceInfoPrime		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
InfTrC	'10001'B		unrestricted digital information with tones/announcements
CodS	'00'B		CCITT standardized coding
Extl_1	'1'B		
InfTR	'10000'B		64 kbit/s
TrMod	'00'B		Circuit mode
Extl_2	'1'B		
RatMul	—		
Extl_3	—		
UInf1	'00011'B		G.711 A-law
Lay1	'01'B		
Extl_4	'1'B		last octet for Layer 1
UsrRate	—		
Negot	—		
SynAsyn	—		
Extl_5	—		
Spare_1	—		
FICtrRx	—		
FICtrTx	—		
NICRx	—		
NICTx	—		
IntRate	—		
Extl_6	—		
Spare_2	—		
InBndNeg	—		
Ass	—		
LLINeg	—		
Mode	—		
MultFr	—		
Hdr	—		
Extl_7	—		
Prty	—		
NDatBit	—		
NStpBit	—		
Extl_8	—		
MdmTyp	—		
DupMod	—		
Extl_9	—		
UInf2	—		

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
Lay2	–		
Extl_10	–		
UInf3	–		
Lay3	–		
Extl_11	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_User_teleservice_information Structured Type : User_teleservice_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userTeleServiceInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Pres	'01'B		High layer protocol profile
Interpr	'100'B		First high layer characteristics identification
CodS	'00'B		CCITT standardized coding
Extl_1	'1'B		
HLChrlnf	'0000001'B		Telephony
Extl_2	'1'B		Last octet
ExHLChrlnf	–		
Extl_3	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_User_to_user_indicators Structured Type : User_to_user_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userToUserInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Type	–		
Service1	–		
Service2	–		
Service3	–		
NetworkDiscardInd	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_User_to_user_indicators_WithParameters (type:BIT_1; serv1:BIT_2; serv2:BIT_2; serv3:BIT_2; NWDI:BIT_1) Structured Type : User_to_user_indicators Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userToUserInd		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
Type	type		
Service1	serv1		
Service2	serv2		
Service3	serv3		
NetworkDiscardInd	NWDI		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_User_to_user_information Structured Type : User_to_user_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userToUserInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
UserInfo	'48616C6C646F722C204E 6F726265727420616E6420 4D6972636561207769736 820796F75206120676F6F6 42074657374696E672E'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_BCAP1 Structured Type : BCAP Derivation Path : Encoding Variation : Comments : Bearer capability information element			
Element Name	Element Value	Element Encoding	Comments
bcap_i	'00000100'B		
bcap_l	TSV_BCAPL		
bcap_con	TSV_BCAPV		
Detailed Comments : TSV_BCAPV and TSV_BCAPL are test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CAU1 Structured Type : CAU_1 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cau_i	'00001000'B		
cau_l	?		
cau_e3_loc	?		
cau_e4_cv	?		
cau_di	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CAU2(CVAL: INTEGER)			
Structured Type : CAU			
Derivation Path :			
Encoding Variation :			
Comments : Cause information element			
Element Name	Element Value	Element Encoding	Comments
cau_i	'00001000'B		(1)
cau_l	'00000010'B		
cau_e3_loc	'10000000'B		
cau_e4_rec	–		
cau_e5_cv1	'1'B		
cau_e5_cv2	INT_TO_BIT(CVAL,7)		
cau_di	–		
Detailed Comments : Send constraint with parametrised cause value.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CDPN1(LIPN, IPN: OCTETSTRING)			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
cdpn_i	'01110000'B		
cdpn_l	LIPN		
cdpn_e3_npi	TSV_CDPNOCTET3		
cdpn_e4_nd	IPN		
Detailed Comments : Constraint with parametrised length value and number digits; TSV_CDPNOCTET3 is a test suite parameter			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CDPN2			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
cdpn_i	'01110000'B		
cdpn_l	TSO_CALC_NUM_LENGT H(TSP_NB_A)		
cdpn_e3_npi	TSV_CDPNOCTET3		
cdpn_e4_nd	TSO_HEX_TO_OCTET(TSP_NB_A)		
Detailed Comments : TSP_NB_B and TSV_CDPNOCTET3 are test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CDPN3 Structured Type : CDPN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cdpn_i	'01110000'B		
cdpn_l	TSO_CALC_NUM_LENTH(TSP_NB_B)		
cdpn_e3_npi	TSV_CDPNOCTET3		
cdpn_e4_nd	TSO_HEX_TO_OCTET(TSP_NB_B)		
Detailed Comments : TSP_NB_B and TSV_CDPNOCTET3 are test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CDPN4 Structured Type : CDPN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cdpn_i	'01110000'B		
cdpn_l	TSO_CALC_NUM_LENTH(TSP_NB_B)		
cdpn_e3_npi	'80'O		
cdpn_e4_nd	TSO_HEX_TO_OCTET(TSP_NB_B)		
Detailed Comments : TSP_NB_B and TSV_CDPNOCTET3 are test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CDPS1(LIPN, IPN: OCTETSTRING) Structured Type : CDPS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cdps_i	'01110001'B		
cdps_l	LIPN		
cdps_e3_tos	'10000000'B		
cdps_e4_si	IPN		
Detailed Comments : Constraint with parametrised length value and number digits; TSV_CDPNOCTET3 is a test suite parameter			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CGPN1 Structured Type : CGPN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cgpn_i	'01101100'B		Identifier
cgpn_l	TSO_CALC_NUM_LENTH(TSP_NB_A)		Length value
cgpn_e3_ton	'1010'B		TON = national number
cgpn_e3_npi	'0001'B		NPI = ISDN/telephony
cgpn_e4_pi	–		No presentation indicator
cgpn_e4_si	–		No screening indicator
cgpn_e5_nd	TSP_NB_A		Number digits
Detailed Comments : TSP_NB_B is test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CGPS1 Structured Type : CGPS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cgps_i	'01101101'B		Identifier
cgps_l	'00000101'B		Length value
cgps_e3_tos	'1000'B		TOS = NSAP
cgps_e3_oei	'0'B		Odd/even indicator without significance
cgps_e3_sp	'000'B		Spare
cgps_e4_si	'14377682'O		Subaddress information, arbitrary value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CODN1 Structured Type : CODN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
codn_i	'01001100'B		Identifier
codn_l	TSO_CALC_NUM_LENTH(TSP_NB_B)		Length value
codn_e3_ton	'1010'B		TON = national number
codn_e3_npi	'0011'B		NPI = data numbering plan; arbitrary value that will be discarded by the network
codn_e4_pi	–		No presentation indicator
codn_e4_si	–		No screening indicator
codn_e5_nd	TSP_NB_B		Number digits
Detailed Comments : TSP_NB_B is test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CODN2 Structured Type : CODN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
codn_i	'01001100'B		Identifier
codn_l	TSO_CALC_NUM_LENTH(TSP_NB_C_INCOMPLETE)		Length value
codn_e3_ton	'1010'B		TON = national number
codn_e3_npi	'0001'B		NPI = ISDN/Telephony numbering plan
codn_e4_pi	–		No presentation indicator
codn_e4_si	–		No screening indicator
codn_e5_nd	TSP_NB_C_INCOMPLETE		Number digits
Detailed Comments : TSP_NB_C_INCOMPLETE is a test suite parameter.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CODN3 Structured Type : CODN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
codn_i	'01001100'B		Identifier
codn_l	TSO_CALC_NUM_LENTH(TSP_NB_A_MSN)		Length value
codn_e3_ton	'1010'B		TON = national number
codn_e3_npi	'0001'B		NPI = ISDN
codn_e4_pi	–		No presentation indicator
codn_e4_si	–		No screening indicator
codn_e5_nd	TSP_NB_A_MSN		Number digits
Detailed Comments : TSP_NB_A_MSN is test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CODS1 Structured Type : CODS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cods_i	'01001101'B		Identifier
cods_l	'05'O		Length value
cods_e3_tos	'1000'B		TOS = NSAP
cods_e3_oei	'0'B		Odd/even indicator without significance
cods_e3_sp	'000'B		Spare
cods_e4_si	'14377682'O		Subaddress information, arbitrary value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CR17(CALL_REF: BIT7OR15) Structured Type : CR Derivation Path : Encoding Variation : Comments : Call reference transmitted by the destination side of the call.			
Element Name	Element Value	Element Encoding	Comments
cr_l	INT_TO_BIT(TSV_CRLNGTH,8)		
cr_f	'1'B		
cr_r	CALL_REF		
Detailed Comments : Constraint with parametrised Call reference value. The value of cr_l determined by the Test suite parameter TSV_CRLNGTH is either '00000001' B for basic access or '00000010'B for primary rate access.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CR18(FLAG: INTEGER; CALL_REF: BIT7OR15) Structured Type : CR Derivation Path : Encoding Variation : Comments : Call reference with parametrized flag value.			
Element Name	Element Value	Element Encoding	Comments
cr_l	INT_TO_BIT(TSV_CRLNGTH,8)		
cr_f	INT_TO_BIT(FLAG,1)		
cr_r	CALL_REF		
Detailed Comments : Constraint with parametrised Call reference flag and Call reference value. The value of cr_l determined by the Test suite parameter TSV_CRLNGTH is either '00000001' B for basic access or '00000010'B for primary rate access.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_CR32(CALL_REF: BIT7OR15) Structured Type : CR Derivation Path : Encoding Variation : Comments : This CR can be used for outgoing and incoming calls.			
Element Name	Element Value	Element Encoding	Comments
cr_l	INT_TO_BIT(TSV_CRLNGTH,8)		
cr_f	?		(1)
cr_r	CALL_REF		
Detailed Comments : &COMMON_N10 Constraint with parametrised Call reference value. The value of cr_l determined by the Test suite parameter TSV_CRLNGTH is either '00000001' B for basic access or '00000010'B for primary rate access. (1) Any Call reference flag value is acceptable.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_HLC1 Structured Type : HLC Derivation Path : Encoding Variation : Comments : High layer compatibility information element			
Element Name	Element Value	Element Encoding	Comments
hlc_i	'01111101'B		
hlc_l	TSV_HLCL		
hlc_con	TSV_HLCV		
Detailed Comments : TSV_HLCV and TSV_HLCL are test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_LLC1 Structured Type : LLC Derivation Path : Encoding Variation : Comments : Low layer compatibility information element			
Element Name	Element Value	Element Encoding	Comments
llc_i	'01111100'B		
llc_l	TSV_LLCL		
llc_con	TSV_LLCV		
Detailed Comments : TSV_LLCV and TSV_LLCL are test suite parameters.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_NOID2(val:OCTETSTRING) Structured Type : NOID Derivation Path : Encoding Variation : Comments : Notification indicator information element			
Element Name	Element Value	Element Encoding	Comments
noid_i	'00100111'B		
noid_l	'00000001'B		
noid_e3_nd	val		(1)
Detailed Comments : (1) Any value acceptable for the Notification description.			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_NOID20(NID:OCTETSTRING) Structured Type : NOID Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
noid_i	'00100111'B		
noid_l	'00000001'B		
noid_e3_nd	NID		
Detailed Comments : Notification indicator IE with notification description given as parameter			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_RONN1 Structured Type : RONN Derivation Path : Encoding Variation : Comments : Info Element Redirection Number ETS 300 207-1 subclause 7.2.3			
Element Name	Element Value	Element Encoding	Comments
ronn_i	'01110110'B		Identifier
ronn_l	TSO_CALC_NUM_LENGTH(TSP_NB_D)		Length
ronn_e3_ton	('0000'B, '0001'B, '0010'B)		Type of number
ronn_e3_npi	('0000'B, '0001'B)		Numbering plan identifier
ronn_e4_pi	'100'B		Presentation indicator
ronn_e4_sp	'00000'B		Spare
ronn_e5_nd	TSP_NB_D		Number digits
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_UUI1 (LENGTH : INTEGER; INFORMATION : OCTETSTRING) Structured Type : UUI (USER USER INFORMATION IE) Derivation Path : Encoding Variation : Comments : Info Element User-User			
Element Name	Element Value	Element Encoding	Comments
uui_i	'01111110'B		Identifier
uui_l	INT_TO_BIT(LENGTH,8)		Length
uui_pd	'00001000'B		Protocol discriminator
uui_uic	INFORMATION		User information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_dss1_UUI32 Structured Type : User_to_user_information Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
parameter_type	TSC_userToUserInfo		Parameter name
length	TSO_CALC_PAR_LENGTH ()		Length indicator of parameter
UserInfo	'48616C6C646F722C204E 6F7262657274'O		
Detailed Comments :			

ASN.1 Type Constraint Declaration			
Constraint Name : c_ADDInv(INV_ID : InvokeIDType ; CONF_ID : ConferencelD) ASN1 Type : Component Derivation Path : Encoding Variation : Comments : ASN1_Encoding: BER Send Component: AddCONF invoke component.			
Constraint Value			
addCONF_Components addCONF_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 41, -- The value for operation argument CONF_ID -- ConferencelD (constraint parameter) }			
Detailed Comments :			

ASN.1 Type Constraint Declaration			
Constraint Name : c_ADDRr(INV_ID : InvokeIDType) ASN1 Type : Component Derivation Path : Encoding Variation : Comments : ASN1_Encoding: BER Receive Component: AddCONF return result component.			
Constraint Value			
addCONF_Components addCONF_ReturnResultComp { invokeID INV_ID, -- the invoke identifier valueAndResult { operation_value localValue 41, result ? } } }			
Detailed Comments :			

ASN.1 Type Constraint Declaration	
Constraint Name	: c_BEG1inv(INV_ID : InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: BeginCONF invoke component without ConfSize parameter
Constraint Value	
beginCONF_Components beginCONF_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 40, -- The value for operation argument -- }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_BEG1rr(INV_ID : InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Receive Component: BeginCONF return result component – received when conf is begun from Null Call State (no need to include PartyId).
Constraint Value	
beginCONF_Components beginCONF_ReturnResultComp {invokeID INV_ID, -- the invoke identifier valueAndResult {operation_value localValue 40, result {conferenceld ?, partyId * } } } }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_BegPTY3inv(INV_ID: InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: BeginPTY3 invoke component
Constraint Value	
beginPTY3_Components beginPTY3_InvokeComp {invokeID INV_ID, -- value for the invoke identifier operation_value localValue 4 }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_CHI1b(BCH:BIT7OR8)
ASN1 Type	: CHI
Derivation Path	:
Encoding Variation	:
Comments	: Channel identification for basic access.
Constraint Value	
basic { chi_i '00011000'B, -- Identifier chi_l '00000001'B, -- Length chi_e3_cs BCH -- Channel selection } 	
Detailed Comments	: &COMMON_N10

ASN.1 Type Constraint Declaration	
Constraint Name	: c_CHI5p(BCH:BIT7OR8)
ASN1 Type	: CHI
Derivation Path	:
Encoding Variation	:
Comments	: Channel identification i.e. for primary rate access, the indicated B-channel in bch_num is preferred.
Constraint Value	
primary { chi_i '00011000'B, -- Identifier chi_l '00000011'B, -- Length chi_e3_p1 '1010'B, -- First nibble of Channel selection chi_e3_pe '1'B, -- Preferred/Exclusive Bit chi_e3_p3 '001'B, -- Last three bit of Channel selection chi_e4 '10000011'B, -- Channel type chi_e5_ch1 '1'B, chi_e5_ch2 BCH -- Channel number } 	
Detailed Comments	: &COMMON_N10

ASN.1 Type Constraint Declaration	
Constraint Name	: c_CHI6b
ASN1 Type	: CHI
Derivation Path	:
Encoding Variation	:
Comments	: Channel identification for basic access, any channel selection accepted.
Constraint Value	
<pre> basic { chi_i '00011000'B, -- Identifier chi_l '00000001'B, -- Length chi_e3_cs '1000?0??'B -- Channel selection } </pre>	
Detailed Comments	: &COMMON_N10

ASN.1 Type Constraint Declaration	
Constraint Name	: c_CHI9p
ASN1 Type	: CHI
Derivation Path	:
Encoding Variation	:
Comments	: Channel identification for primary rate access, any channel number may be received.
Constraint Value	
<pre> primary { chi_i '00011000'B, -- Identifier chi_l '00000011'B, -- Length chi_e3_p1 '1010'B, -- First nibble of Channel selection chi_e3_pe '1'B, -- Preferred/Exclusive Bit chi_e3_p3 '001'B, -- Last three bit of Channel selection chi_e4 '10000011'B, -- Channel type chi_e5_ch1 '1'B, chi_e5_ch2 ? -- Channel number } </pre>	
Detailed Comments	: &COMMON_N10

ASN.1 Type Constraint Declaration	
Constraint Name	: c_COMP01(inv_id: InvokeIDType; oar : BOOLEAN; Index:INTEGER)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component:
Constraint Value	
<pre> cUGCall_Components cUGCall_InvokeComp { invokeID inv_id, -- value for the invoke identifier operation_value localValue 2, -- The value for operation CUGCall argument { oARequested oar, cUGIndex Index } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_CallDeflInv(inv_id: InvokeIDType; da: NumberDigits)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component:
Constraint Value	
<pre> callDeflection_Components callDeflection_InvokeComp { invokeID inv_id, -- value for the invoke identifier operation_value localValue 13, -- The value for operation CallDeflection argument { deflectionAddress { partyNumber unknownPartyNumber da }, presentationAllowedDivertedToUser - } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_CCBSCall_invoke (INV_ID : InvokeIDType; CCBS_REF : CCBSReference)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component: CCBSCall Invoke component
Constraint Value	
<pre> cCBSCall_Components cCBSCall_InvokeComp { invokeID INV_ID, -- the invoke identifier operation_value globalValue { cCBSCall }, -- The value for operation argument CCBS_REF } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_CCBSDeactivate_return_result (INV_ID: InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Receive Component: CCBSRequest Return Result component
Constraint Value	
<pre> cCBSDeactivate_Components cCBSDeactivate_ReturnResultComp { invokeID INV_ID, valueAndResult { operation_value globalValue { cCBSDeactivate } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_CCBSDeactivation_invoke (INV_ID : InvokeIDType; CCBSREF : CCBSReference)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component: CCBSDeactivation invoke component
Constraint Value	
<pre>cCBSDeactivate_Components cCBSDeactivate_InvokeComp { invokeID INV_ID, operation_value globalValue { cCBSDeactivate }, argument CCBSREF }</pre>	
Detailed Comments	: (1) TCV_recall_mode is a TS_Constant which contains the value of the TS_parameter PX_RECALL_MODE.

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_CCBSRequest_return_error (INV_ID : InvokeIDType; ERR : Error)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send/Receive Component: CCBSRequest Return Result component
Constraint Value	
<pre>cCBSRequest_Components cCBSRequest_ReturnErrorComp { invokeID INV_ID, -- the invoke identifier error ERR }</pre>	
Detailed Comments	: (1) TCV_recall_mode is a TS_Constant which contains the value of the TS_parameter PX_RECALL_MODE.

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_CCBSRequest_return_result (INV_ID: InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send/Receive Component: CCBSRequest Return Result component
Constraint Value	
<pre> cCBSRequest_Components cCBSRequest_ReturnResultComp { invokeID INV_ID, -- the invoke identifier valueAndResult { operation_value globalValue { cCBSRequest }, -- The value for operation result { recallMode TCV_recall_mode , -- (1) cCBSReference ? } } } </pre>	
Detailed Comments	: (1) TCV_recall_mode is a TS_Constant which contains the value of the TS_parameter PX_RECALL_MODE.

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_CCBSStatusRequest_ReturnResult (INV_ID: InvokeIDType; RESULT : BOOLEAN)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Receive/send Component: CCBSStatusRequest ReturnResult component
Constraint Value	
<pre> cCBSStatusRequest_Components cCBSStatusRequest_ReturnResultComp { invokeID INV_ID , -- the invoke identifier valueAndResult { operation_value globalValue { cCBSStatusRequest }, result RESULT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_r_CCBSBFree_invoke (CCBS_REF: CCBSReference)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Receive Component: CCBSBFree Invoke component
Constraint Value	
<pre> cCBSBFree_Components cCBSBFree_InvokeComp { invokeID ?, operation_value globalValue { cCBSBFree }, argument { recallMode TCV_recall_mode, -- (1) cCBSReference CCBS_REF , addressOfB { partyNumber ? , partySubaddress * }, q931InfoElement ? } } </pre>	
Detailed Comments : (1) TCV_recall_mode is a TS_Constant which contains the value of the TS_parameter PX_RECALL_MODE.	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_r_CCBSErase_invoke (CCBS_REF: CCBSReference; REASON : CCBSEraseReason)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Receive Component: CCBSErase Invoke component
Constraint Value	
<pre> cCBSErase_Components cCBSErase_InvokeComp { invokeID ? , -- the invoke identifier operation_value globalValue { cCBSErase }, -- The value for operation argument { recallMode TCV_recall_mode, -- (1) cCBSReference CCBS_REF , addressOfB { partyNumber ? , partySubaddress * }, q931InfoElement ? , eraseReason REASON } } } </pre>	
Detailed Comments : (1) TCV_recall_mode is a TS_Constant which contains the value of the TS_parameter PX_RECALL_MODE.	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_r_CCBSRemoteUserFree_invoke (CCBS_REF: CCBSReference)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Receive Component: CCBSRemoteUserFree Invoke component
Constraint Value	
<pre> cCBSRemoteUserFree_Components cCBSRemoteUserFree_InvokeComp { invokeID ?, -- the invoke identifier operation_value globalValue { cCBSRemoteUserFree }, -- The value for operation argument { recallMode TCV_recall_mode , cCBSReference CCBS_REF , addressOfB { partyNumber ? , partySubaddress * }, q931InfoElement ? } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_r_CCBSStatusRequest_invoke (CCBS_REF: CCBSReference)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Receive Component: CCBSStatusRequest Invoke component
Constraint Value	
<pre> cCBSStatusRequest_Components cCBSStatusRequest_InvokeComp { invokeID ?, -- the invoke identifier operation_value globalValue { cCBSStatusRequest }, -- The value for operation argument { recallMode TCV_recall_mode, -- (1) cCBSReference CCBS_REF, q931InfoElement ? } } </pre>	
Detailed Comments	: (1) TCV_recall_mode is a TS_Constant which contains the value of the TS_parameter PX_RECALL_MODE.

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_s_CCBSRequest_invoke (INV_ID : InvokeIDType; LINK_ID : CallLinkageID)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component: CCBSRequest Invoke component
Constraint Value	
<pre> cCBSRequest_Components cCBSRequest_InvokeComp { invokeID INV_ID, -- the invoke identifier operation_value globalValue { cCBSRequest }, -- The value for operation argument LINK_ID -- value assigned in dynamic part } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Component_s_ectExecute_inv (INV_ID : InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component: implicit ectExecute invoke component
Constraint Value	
<pre> ectExecute_Components ectExecute_InvokeComp { invokeID INV_ID, -- "linkedID" of GFP not used in SS operation_value localValue 6 -- no argument with this invoke comp } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DROinv(INV_ID : InvokeIDType ; PARTY_ID : PartyID)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: DropCONF invoke component.
Constraint Value	
<pre> dropCONF_Components dropCONF_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 43, -- The value for operation argument PARTY_ID -- PartyID (constraint parameter) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_EndPTY3inv(INV_ID: InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: EndPTY3 invoke component
Constraint Value	
<pre> endPTY3_Components endPTY3_InvokeComp {invokeID INV_ID, operation_value localValue 5 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_ISOinv(INV_ID : InvokeIDType ; PARTY_ID : PartyId)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: IsolateCONF invoke component.
Constraint Value	
<pre> isolateCONF_Components isolateCONF_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 44, -- The value for operation argument PARTY_ID -- PartyID (constraint parameter) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PARinv(PARTY_ID : PartyId)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Receive Component: PartyDISC invoke component.
Constraint Value	
<pre> partyDISC_Components partyDISC_InvokeComp {invokeID ? , -- the invoke identifier operation_value localValue 46, -- The value for operation argument PARTY_ID -- PartyID (constraint parameter) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_REAinv(INV_ID : InvokeIDType ; PARTY_ID : PartyID)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: ReattachCONF invoke component.
Constraint Value	
<pre> reattachCONF_Components reattachCONF_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 45, -- The value for operation argument PARTY_ID -- PartyID (constraint parameter) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SPLinv(INV_ID : InvokeIDType ; CONF_ID : ConferencelD ; PARTY_ID : PartyID)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Send Component: SplitCONF invoke component.
Constraint Value	
<pre> splitCONF_Components splitCONF_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 42, -- The value for operation argument {conferencelD CONF_ID, -- ConferencelD (constraint parameter) partyID PARTY_ID -- PartyID (constraint parameter) } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SPLrr(INV_ID : InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Receive Component: SplitCONF return result component.
Constraint Value	
<pre> splitCONF_Components splitCONF_ReturnResultComp {invokeID INV_ID -- the invoke identifier } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UUS_invokeComp_service_preferred_r_invID (INV_ID : InvokeIDType; SERVICE : INTEGER ; PREF_REQ : BOOLEAN)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Receive Component: UUS invoke component, with the service number and preferred/required value given as parameter.
Constraint Value	
<pre> userUserService_Components userUserService_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 1, -- The value for operation argument { service SERVICE, preferred PREF_REQ } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UUS_invokeComp_service_preferred_s (INV_ID : InvokeIDType ; SERVICE : INTEGER ; PREF_REQ : BOOLEAN)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send Component: UUS invoke component, with the service number and preferred/required value given as parameter.
Constraint Value	
<pre> userUserService_Components userUserService_InvokeComp {invokeID INV_ID, -- the invoke identifier operation_value localValue 1, -- The value for operation argument { service SERVICE, preferred PREF_REQ } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UUS_return_error (INV_ID : InvokeIDType ; ERROR_ID : Error)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send&Receive Component: UUS return error component
Constraint Value	
<pre> userUserService_Components userUserService_ReturnErrorComp {invokeID INV_ID, -- the invoke identifier error ERROR_ID -- the error value } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UUS_return_result (INV_ID : InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: ASN1_Encoding: BER Send&Receive Component: UUS return result component.
Constraint Value	
<pre> userUserService_Components userUserService_ReturnResultComp {invokeID INV_ID -- the invoke identifier } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_fIEr(COMP: Component)
ASN1 Type	: FIE
Derivation Path	:
Encoding Variation	:
Comments	: A received FIE which can contain several components, but which contains at least "comp"
Constraint Value	
<pre> { informationElementIdentifier '00011100'B, length ?, extBit '1'B, spareBits '00'B, protocolProfile '10001'B, components SUPERSET ({COMP}) } -- field will contain at least one comp </pre>	
Detailed Comments	: &COMMON_N09

ASN.1 Type Constraint Declaration	
Constraint Name	: c_fIEr_2comp(COMP1: Component; COMP2: Component)
ASN1 Type	: FIE
Derivation Path	:
Encoding Variation	:
Comments	: A received FIE which can contain several components, but which contains at least "comp"
Constraint Value	
<pre>{ informationElementIdentifier '00011100'B, length ?, extBit '1'B, spareBits '00'B, protocolProfile '10001'B, components SUPERSET ({COMP1, COMP2}) } -- field will contain at least one comp</pre>	
Detailed Comments	: &COMMON_N09

ASN.1 Type Constraint Declaration	
Constraint Name	: c_fIEr_3comp(COMP1: Component; COMP2: Component; COMP3: Component)
ASN1 Type	: FIE
Derivation Path	:
Encoding Variation	:
Comments	: A received FIE which can contain several components, but which contains at least "comp"
Constraint Value	
<pre>{ informationElementIdentifier '00011100'B, length ?, extBit '1'B, spareBits '00'B, protocolProfile '10001'B, components SUPERSET ({COMP1, COMP2, COMP3}) } -- field will contain at least one comp</pre>	
Detailed Comments	: &COMMON_N09

ASN.1 Type Constraint Declaration	
Constraint Name	: c_fIEs(comp: Component)
ASN1 Type	: FIE
Derivation Path	:
Encoding Variation	:
Comments	: Send fie which will contain one component "comp". The length of the fie is calculated by the test suite operation TSO_CALC_FIE_LENGTH.
Constraint Value	
<pre>{ informationElementIdentifier '00011100'B, length TSO_CALC_FIE_LENGTH(comp), -- c_fIEs length is calculated extBit '1'B, spareBits '00'B, protocolProfile '10001'B, components {comp} } -- field will contain only one comp</pre>	
Detailed Comments	: &COMMON_N09

ASN.1 Type Constraint Declaration	
Constraint Name	: c_fIEs_2comp (comp1: Component; comp2: Component)
ASN1 Type	: FIE
Derivation Path	:
Encoding Variation	:
Comments	: Send fie which will contain one component "comp". The length of the fie is calculated by the test suite operation TSO_CALC_FIE_LENGTH.
Constraint Value	
<pre>{ informationElementIdentifier '00011100'B, length INT_TO_BIT(BIT_TO_INT(TSO_CALC_FIE_LENGTH(comp1))+BIT_TO_INT(TSO_CALC_FIE_LENGTH(comp2)),8), -- c_fIEs length is calculated extBit '1'B, spareBits '00'B, protocolProfile '10001'B, components {comp1, comp2}} -- field will contain only one comp</pre>	
Detailed Comments	: &COMMON_N09

ASN.1 Type Constraint Declaration	
Constraint Name	: c_fIEs_3comp (comp1: Component; comp2: Component; comp3: Component)
ASN1 Type	: FIE
Derivation Path	:
Encoding Variation	:
Comments	: Send fie which will contain one component "comp". The length of the fie is calculated by the test suite operation TSO_CALC_FIE_LENGTH.
Constraint Value	
<pre>{ informationElementIdentifier '00011100'B, length INT_TO_BIT(BIT_TO_INT(TSO_CALC_FIE_LENGTH(comp1))+BIT_TO_INT(TSO_CALC_FIE_LENGTH(comp2))+BIT_TO _INT(TSO_CALC_FIE_LENGTH(comp3)),8), -- c_fIEs length is calculated extBit '1'B, spareBits '00'B, protocolProfile '10001'B, components {comp1, comp2, comp3} } -- field will contain only one comp</pre>	
Detailed Comments	: &COMMON_N09

ASP Constraint Declaration		
Constraint Name : A_receive (pducon:PDU)		
ASP Type : M_TRANSFERind		
Derivation Path :		
Comments : Receiving constraint for A-side of SUT.		
Parameter Name	Parameter Value	Comments
sio	TSO_CONCAT_OCT(TSP_NI_L,'000101'B)	
opc	BIT_TO_INT(TSP_SPA_L)	
dpc	BIT_TO_INT(TSP_SPC)	
sls	?	
data	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : A_send (pducon:PDU)		
ASP Type : M_TRANSFERreq		
Derivation Path :		
Comments : Sending constraint for A-side of SUT.		
Parameter Name	Parameter Value	Comments
sio	TSO_CONCAT_OCT(TSP_NI_L,'000101'B)	
opc	BIT_TO_INT(TSP_SPC)	
dpc	BIT_TO_INT(TSP_SPA_L)	
sls	TSP_SLS_L	
data	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : B_receive (pducon:PDU)		
ASP Type : M_TRANSFERind		
Derivation Path :		
Comments : Receiving constraint for B-side of SUT.		
Parameter Name	Parameter Value	Comments
sio	TSO_CONCAT_OCT(TSP_NI_R,'000101'B)	
opc	BIT_TO_INT(TSP_SPA_R)	
dpc	BIT_TO_INT(TSP_SPB)	
sls	?	
data	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : B_send (pducon:PDU)		
ASP Type : M_TRANSFERreq		
Derivation Path :		
Comments : Sending constraint for B–side of SUT.		
Parameter Name	Parameter Value	Comments
sio	TSO_CONCAT_OCT(TSP_NI_R,'000101'B)	
opc	BIT_TO_INT(TSP_SPB)	
dpc	BIT_TO_INT(TSP_SPA_R)	
sls	TSP_SLS_R	
data	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Non_isup_ACM_s_AU ASP Type : Non_ISUP_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
non_isup_pdu	"Address complete message"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Non_isup_ANC_s_AU ASP Type : Non_ISUP_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
non_isup_pdu	"Answer signal, charge"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Non_isup_CCL_r_UA ASP Type : Non_ISUP_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
non_isup_pdu	"Calling party clear signal"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Non_isup_IAI_r_UA		
ASP Type : Non_ISUP_IND		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
non_isup_pdu	"Initial Address Indication"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : access_receive(pducon:PDU)		
ASP Type : DL_DAT_IN		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
mun	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : access_receive_conf(pducon:PDU)		
ASP Type : DL_DAT_IN_DISCr		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
mun	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : access_send(pducon:PDU)		
ASP Type : DL_DAT_RQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
mun	pducon	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : r_TC_BEGIN (Instr : PrintableString) ASP Type : TCAP_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
tcap_pdu	" Instr withTCAP begin response message"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : r_TC_CONTINUE(Instr : PrintableString) ASP Type : TCAP_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
tcap_pdu	"Instr. in TCAP continue response message"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : r_TC_END(Instr : PrintableString) ASP Type : TCAP_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
tcap_pdu	"Instr withTCAP end response message"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : s_TC_BEGIN(Instr : PrintableString) ASP Type : TCAP_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
tcap_pdu	"Instr with TCAP begin request message"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : s_TC_CONTINUE(Instr : PrintableString)		
ASP Type : TCAP_REQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
tcap_pdu	"Instr withTCAP continue request message"	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : s_TC_END(Instr : PrintableString)		
ASP Type : TCAP_REQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
tcap_pdu	"Instr withTCAP end request message"	
Detailed Comments :		

PDU Constraint Declaration			
Constraint Name : alert_o_r(CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'00000001'B		
chi	*		
fie	*		
pi	*		
noid	*		
dsp	*		
ronn	—		
uui	*		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : alert_o_r_With_no_redirection_number_gen_notification_ind(CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
noid	c_dss1_NOID2('FB'O)		
Detailed Comments : Alert with redirection number and Notification indicator "call is diverting"			

PDU Constraint Declaration			
Constraint Name : alert_o_r_With_redirection_number_gen_notification_ind(CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
noid	c_dss1_NOID2('FB'O)		
ronn	c_dss1_RONN1		
Detailed Comments : Alert with redirection number and Notification indicator "call is diverting"			

PDU Constraint Declaration			
Constraint Name : alert_o_r_waiting_call(CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
noid	c_dss1_NOID2('D0'O)		waiting call
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : alert_o_r_with_32octet_uui(CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (33, TSC_UUI_32)		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : alert_o_r_with_fie (CALL_REF: BIT7OR15; comp:Component) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : alert_o_r_with_fie_and_uui(CALL_REF: BIT7OR15; comp:Component) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : &COMMON_N10 PDU with "don't care" values; CHI mandatory, if in 1st PDU in response to SETUP.			

PDU Constraint Declaration			
Constraint Name : alert_o_r_with_fie_and_uui_s1_s2 (CALL_REF: BIT7OR15; comp1:Component; comp2:Component) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEr_2comp (comp1, comp2)}		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : alert_o_r_with_uui(CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : alert_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : alert_o_s(FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG, CALL_REF)		
mt	'00000001'B		
chi	—		
fie	—		
pi	—		
noid	—		
dsp	—		
ronn	—		
uui	—		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : alert_o_s_with_fie (FLAG: INTEGER; CALL_REF: BIT7OR15; comp:Component) PDU Type : ALERT_PDU Derivation Path : alert_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : alert_o_s_with_fie_and_uui (FLAG: INTEGER; CALL_REF: BIT7OR15; comp:Component) PDU Type : ALERT_PDU Derivation Path : alert_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : alert_o_s_with_fie_and_uui_s1_s2 (FLAG: INTEGER; CALL_REF: BIT7OR15; comp1:Component; comp2:Component) PDU Type : ALERT_PDU Derivation Path : alert_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs_2comp(comp1, comp2)}		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : alert_o_s_with_uui(FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : ALERT_PDU Derivation Path : alert_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : alert_pseudo PDU Type : PSEUDO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : General alert PDU, used to provide constraints as they implemented in the access system.			
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : call_proceeding_o_r(CALL_REF: BIT7OR15) PDU Type : CALL_PROC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'00000010'B		
chi	?		
fie	*		
pi	*		
noid	*		
dsp	*		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : connect_ack_o_r(CALL_REF: BIT7OR15) PDU Type : CONN_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'00001111'B		
chi	*		
fie	*		
noid	*		
dsp	*		
Detailed Comments : PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : connect_o_r(CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'00000111'B		
chi	*		
fie	*		
pi	*		
noid	*		
dsp	*		
dati	*		
codn	*		
cods	*		
ronn	—		
llc	*		
uui	*		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : connect_o_r_with_32octet_uui(CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : connect_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (33, TSC_UUI_32)		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : connect_o_r_with_fie(CALL_REF: BIT7OR15; comp:Component) PDU Type : CONN_PDU Derivation Path : connect_o_r. Encoding Rule Name : Encoding Variation : Comments : receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		Facility i.e with component to be received.
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : connect_o_r_with_uui(CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : connect_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : connect_o_r_with_uui_s3 (CALL_REF: BIT7OR15; comp:Component)			
PDU Type : CONN_PDU			
Derivation Path : connect_o_r.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEr(comp)}		Facility i.e with component to be received
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : connect_o_s(FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG, CALL_REF)		
mt	'00000111'B		
chi	—		
fie	—		
pi	—		
noid	—		
dsp	—		
dati	—		
codn	—		
cods	—		
ronn	—		
llc	—		
uui	—		
Detailed Comments : &COMMON_N12 PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : connect_o_s_with_fie(FLAG:INTEGER; CALL_REF: BIT7OR15; comp:Component) PDU Type : CONN_PDU Derivation Path : connect_o_s. Encoding Rule Name : Encoding Variation : Comments : receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		Facility i.e with component to be sent.
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : connect_o_s_with_uui (FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : connect_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU with uui			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : connect_o_s_with_uui_s3 (FLAG:INTEGER; CALL_REF: BIT7OR15; comp:Component) PDU Type : CONN_PDU Derivation Path : connect_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU with uui			
Field Name	Field Value	Field Encoding	Comments
fie uui	{c_fIEs(comp)} c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : connect_pseudo PDU Type : PSEUDO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : General connect PDU, used to provide constraints as they implemented in the access system.			
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : connect_with_any_party_number(CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : connect_o_r. Encoding Rule Name : Encoding Variation : Comments : receive PDU			
Field Name	Field Value	Field Encoding	Comments
codn	?		
ronn	*		
Detailed Comments : PDU with optional information elements.			

PDU Constraint Declaration			
Constraint Name : connect_with_party_number(FLAG:INTEGER; CALL_REF: BIT7OR15; CODN_VAL: CODN) PDU Type : CONN_PDU Derivation Path : connect_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
codn	CODN_VAL		
Detailed Comments : PDU with optional information elements.			

PDU Constraint Declaration			
Constraint Name : connect_with_party_number_and_subaddress(FLAG:INTEGER;CALL_REF: BIT7OR15; CODN_VAL: CODN; CODS_VAL: CODS) PDU Type : CONN_PDU Derivation Path : connect_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
codn	CODN_VAL		
cods	CODS_VAL		
Detailed Comments : PDU with optional information elements.			

PDU Constraint Declaration			
Constraint Name : connect_without_party_number(CALL_REF: BIT7OR15) PDU Type : CONN_PDU Derivation Path : connect_o_r. Encoding Rule Name : Encoding Variation : Comments : receive PDU			
Field Name	Field Value	Field Encoding	Comments
codn	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : disconnect_o_r(CALL_REF: BIT7OR15) PDU Type : DISC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'01000101'B		
cau	c_dss1_CAUI		
fie	*		
pi	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : disconnect_o_r_with_32octet_uui(CALL_REF: BIT7OR15) PDU Type : DISC_PDU Derivation Path : disconnect_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (33, TSC_UUI_32)		
Detailed Comments : PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : disconnect_o_r_with_uui (CALL_REF: BIT7OR15) PDU Type : DISC_PDU Derivation Path : disconnect_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : disconnect_o_s(FLAG:INTEGER; CALL_REF:BIT7OR15; CVAL:INTEGER; comp:Component)			
PDU Type : DISC_N_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent DISC PDU containing a Facility IE with a component.			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		cause value = CVAL Facility i.e with component to be sent
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'01000101'B		
cau	c_dss1_CAU2(CVAL)		
fie	{c_fIEs(comp)}		
pi	—		
dsp	—		
uui	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : disconnect_o_s_with_uui_without_component (FLAG:INTEGER; CALL_REF:BIT7OR15; CVAL:INTEGER) PDU Type : DISC_N_PDU Derivation Path : disconnect_o_s. Encoding Rule Name : Encoding Variation : Comments : Sent DISC PDU containing a Facility IE with a component.			
Field Name	Field Value	Field Encoding	Comments
fie	—		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name	: disconnect_pseudo		
PDU Type	: PSEUDO_PDU		
Derivation Path	:		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	: General pseudo PDU, used to provide constraints as they implemented in the access system.		
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name	: disconnect_without_component(FLAG:INTEGER; CALL_REF:BIT7OR15; CVAL:INTEGER)		
PDU Type	: DISC_N_PDU		
Derivation Path	: disconnect_o_s.		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	: Sent DISC PDU.		
Field Name	Field Value	Field Encoding	Comments
fie	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : facility_o_r(FLAG : INTEGER ; CALL_REF: BIT7OR15 ; comp:Component)			
PDU Type : FAC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		Facility i.e with component to be received
cr	c_dss1_CR18(FLAG,CALL_REF)		
mt	'01100010'B		
fie	SUPERSET({c_fIEr(comp)})		
dsp	—		
cdpn	—		
cdps	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : facility_o_r_anycomp (FLAG : INTEGER ; CALL_REF: BIT7OR15) PDU Type : FAC_PDU Derivation Path : facility_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	SUPERSET({c_fIEr(*)})		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : facility_o_s(FLAG : INTEGER ; CALL_REF: BIT7OR15 ; comp:Component)			
PDU Type : FAC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		Facility i.e with component to be sent
cr	c_dss1_CR18(FLAG,CALL_REF)		
mt	'01100010'B		
fie	{c_fIEs(comp)}		
dsp	—		
cdpn	—		
cdps	—		
Detailed Comments : PDU without optional parameter used to send one component within one Facility information element;			

PDU Constraint Declaration			
Constraint Name : facility_pseudo PDU Type : PSEUDO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : General facility PDU, used to provide constraints as they implemented in the access system.			
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : hold_ack_o_r(CALL_REF: BIT7OR15) PDU Type : HOLD_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'00101000'B		
fie	*		
dsp	*		
Detailed Comments : PDU with optional parameter			

PDU Constraint Declaration			
Constraint Name : hold_ack_r(CALL_REF: BIT7OR15) PDU Type : HOLD_ACK_PDU Derivation Path : hold_ack_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
cr	c_dss1_CR17(CALL_REF)		
Detailed Comments : PDU with optional parameter			

PDU Constraint Declaration			
Constraint Name : hold_ack_s(CALL_REF: BIT7OR15) PDU Type : HOLD_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR17(CALL_REF)		
mt	'00101000'B		
fie	—		
dsp	—		
Detailed Comments : PDU with optional parameter			

PDU Constraint Declaration			
Constraint Name : hold_o_r(CALL_REF: BIT7OR15) PDU Type : HOLD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32 (CALL_REF)		
mt	'00100100'B		
fie	*		
dsp	*		
Detailed Comments : DSP optional LT parameter; no IUT parameter;			

PDU Constraint Declaration			
Constraint Name : hold_o_s(FLAG :INTEGER; CALL_REF: BIT7OR15) PDU Type : HOLD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100100'B		
fie	—		
dsp	—		
Detailed Comments : DSP optional LT parameter; no IUT parameter;			

PDU Constraint Declaration			
Constraint Name : hold_pseudo PDU Type : PSEUDO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : General hold PDU, used to provide constraints as they implemented in the access system.			
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : notification_noid(CALL_REF: BIT7OR15 ; NID : OCTETSTRING) PDU Type : NOTIFY_PDU Derivation Path : notification_o_r. Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
noid	c_dss1_NOID20(NID)		
Detailed Comments : NOTIFY message with a notification indicator IE.			

PDU Constraint Declaration			
Constraint Name : pseudo_general PDU Type : PSEUDO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : General PDU, used to provide constraints as they implemented in the access system.			
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : release_comp_o_r(FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG,CALL_REF)		
mt	'01011010'B		
cau	?		
fie	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : release_comp_o_s(FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG,CALL_REF)		
mt	'01011010'B		
cau	—		
fie	—		
noid	—		
dsp	—		
uui	—		
Detailed Comments : PDU with optional information element cau			

PDU Constraint Declaration			
Constraint Name : release_o_r(FLAG: INTEGER; CALL_REF: BIT7OR15) PDU Type : REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG,CALL_REF)		
mt	'01001101'B		
cau	*		
fie	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don't care" values			

PDU Constraint Declaration			
Constraint Name : release_o_s(FLAG: INTEGER; CALL_REF: BIT7OR15; CVAL: INTEGER) PDU Type : REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG,CALL_REF)		
mt	'01001101'B		
cau	c_dss1_CAU2(CVAL)		
fie	–		
noid	–		
dsp	–		
uui	–		
Detailed Comments : PDU with optional information element cau			

PDU Constraint Declaration			
Constraint Name : resume_ack_o_r(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : RESUME_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : RESUME ACKNOWLEDGEMENT u <– n local			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		protocol discriminator M
cr	c_dss1_CR18 (FLAG,CALL_REF)		call reference M OCTETSTRING[1..3]
mt	'00101110'B		message type M
chi	*		channel identification C OCTETSTRING[2..5]
dsp	*		display (n →u) O OCTETSTRING[2..3]
Detailed Comments : &COMMON_N10			

PDU Constraint Declaration			
Constraint Name : resume_ack_o_s(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : RESUME_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : RESUME ACKNOWLEDGEMENT u <- n local			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		protocol discriminator M
cr	c_dss1_CR18 (FLAG,CALL_REF)		call reference M OCTETSTRING[1..3]
mt	'00101110'B		message type M
chi	–		channel identification C OCTETSTRING[2..5]
dsp	–		display (n ->u) O OCTETSTRING[2..3]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : resume_o_r(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : RESUME_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100110'B		
cid	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : resume_o_s(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : RESUME_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100110'B		
cid	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : retrieve_ack_o_r(CALL_REF: BIT7OR15) PDU Type : RET_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'00110011'B		
chi	*		
fie	*		
dsp	*		
Detailed Comments : PDU without optional parameters;			

PDU Constraint Declaration			
Constraint Name : retrieve_ack_o_s(FLAG:INTEGER; CALL_REF: BIT7OR15) PDU Type : RET_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG, CALL_REF)		
mt	'00110011'B		
chi	—		
dsp	—		
Detailed Comments : PDU without optional parameters;			

PDU Constraint Declaration			
Constraint Name : retrieve_o_r(CALL_REF: BIT7OR15) PDU Type : RET_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32 (CALL_REF)		
mt	'00110001'B		
chi	*		
fie	*		
dsp	*		
Detailed Comments : PDU without optional parameters;			

PDU Constraint Declaration			
Constraint Name : retrieve_o_s(FLAG: INTEGER;CALL_REF: BIT7OR15) PDU Type : RET_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG, CALL_REF)		
mt	'00110001'B		
chi	–		
fie	–		
dsp	–		
Detailed Comments : PDU without optional parameters;			

PDU Constraint Declaration			
Constraint Name : setup_no_calling_party_number(FLAG:INTEGER;CALL_REF: BIT7OR15) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
chi	–		
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_no_calling_party_number_channel(FLAG:INTEGER;CALL_REF: BIT7OR15; BCH: BIT7OR8) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_no_calling_party_number_no_channel			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_r.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
chi	TSO_ASSIGN_CHI(c_CHI6 b,c_CHI9p,TSV_BASIC)		
cdpn	c_dss1_CDPN4		
Detailed Comments : PDU with optional information elements SCI, CGPN and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_no_calling_party_number_with_flag(FLAG:INTEGER;CALL_REF: BIT7OR15; BCH: BIT7OR8)			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_s.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_r (CALL_REF:BIT7OR15) PDU Type : SETUP_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32 (CALL_REF)		
mt	'00000101'B		
sci	*		
bcap	?		
chi	?		
fie	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	—		
tns	—		
llc	*		
hlc	*		
uui	*		
Detailed Comments : PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : setup_o_r_with_fie(FLAG:INTEGER; CALL_REF: BIT7OR15; comp:Component) PDU Type : SETUP_PDU Derivation Path : setup_o_r. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEr(comp)}		Facility i.e with component to be sent
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements SCI, CGPN and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_r_with_fie_and_uui (CALL_REF: BIT7OR15; comp:Component)			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_r.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_flEr(comp)}		Facility i.e with component to be sent
cdpn	c_dss1_CDPN3		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with optional information elements fie, uui and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_r_with_fie_and_uui_s1_s2_s3 (CALL_REF: BIT7OR15; comp1:Component; comp2:Component; comp3:Component)			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_r.			
Encoding Rule Name :			
Encoding Variation :			
Comments : receive PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_flEr_3comp(comp1, comp2, comp3)}		Facility i.e with 3 component to be sent
cdpn	c_dss1_CDPN3		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with optional information elements fir, uui and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_r_with_uui (CALL_REF:BIT7OR15) PDU Type : SETUP_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU with uui			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32 (CALL_REF)		
mt	'00000101'B		
sci	*		
bcap	?		
chi	?		
fie	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	—		
tns	—		
llc	*		
hlc	*		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : setup_o_s(FLAG: INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8;LIPN:OCTETSTRING;IPN:OCTETSTRING) PDU Type : SETUP_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18(FLAG, CALL_REF)		
mt	'00000101'B		
sci	'10100001'B		
bcap	c_dss1_BCAP1		
chi	TSO_ASSIGN_CHI(c_CHI1 b(BCH),c_CHI5p(BCH),TS V_BASIC)		
fie	—		
pi	—		
nsf	—		
noid	—		
dsp	—		
kpf	—		
cgpn	—		
cgps	—		
cdpn	c_dss1_CDPN1(LIPN,IPN)		
cdps	—		
rngn	—		
tns	—		
llc	c_dss1_LLC1		
hlc	c_dss1_HLC1		
uui	—		
Detailed Comments : &COMMON_N12 PDU with optional information element SCI and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_s_CUGcall_no_oa(COMP:Component;FLAG:INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8;LIPN:OCTETSTRING;IPN:OCTETSTRING) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Setup DSS1 message with indicating a CUG call with outgoing access not allowed			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(COMP)}		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : setup_o_s_called_subaddress (FLAG:INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8;LIP_S:OCTETSTRING;IPS:OCTETSTRING) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Setup DSS1 message with subadress information			
Field Name	Field Value	Field Encoding	Comments
cdpn	c_dss1_CDPN2		
cdps	c_dss1_CDPS1(LIP_S, IPS)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : setup_o_s_with_32octet_uui(FLAG:INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
cdpn	c_dss1_CDPN3		
uui	c_dss1_UUI1(33, TSC_UUI_32)		
Detailed Comments : PDU with optional information element CDPN and 32 octets UUI.			

PDU Constraint Declaration			
Constraint Name : setup_o_s_with_fie (FLAG:INTEGER;CALL_REF: BIT7OR15; BCH: BIT7OR8; comp:Component) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		Facility i.e with component to be sent
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements SCI, CGPN and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_s_with_fie_and_uui (FLAG:INTEGER;CALL_REF: BIT7OR15; BCH: BIT7OR8; comp:Component)			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_s.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		Facility i.e with component to be sent
cdpn	c_dss1_CDPN3		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with optional information elements fie, uui and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_s_with_fie_and_uui_s1_s2_s3 (FLAG:INTEGER;CALL_REF: BIT7OR15; BCH: BIT7OR8; comp1:Component; comp2:Component; comp3:Component)			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_s.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs_3comp(comp1, comp2, comp3)}		Facility i.e with 3 component to be sent
cdpn	c_dss1_CDPN3		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with optional information elements fie, uui and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_o_s_with_uui(FLAG: INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8)			
PDU Type : SETUP_PDU			
Derivation Path : setup_o_s.			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
cdpn	c_dss1_CDPN3		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments : PDU with optional information elements CDPN and 104 octets UUI.			

PDU Constraint Declaration			
Constraint Name	: setup_pseudo		
PDU Type	: PSEUDO_PDU		
Derivation Path	:		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	: General setup PDU, used to provide constraints as they implemented in the access system.		
Field Name	Field Value	Field Encoding	Comments
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name	: setup_receive_call_ref_and_channel		
PDU Type	: SETUP_PDU		
Derivation Path	: setup_o_r.		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	: Receive PDU		
Field Name	Field Value	Field Encoding	Comments
chi	TSO_ASSIGN_CHI(c_CHI6b,c_CHI9p,TSV_BASIC)		
tns	*		
Detailed Comments : chi: c_CHI9p --> TSO_ASSIGN_CHI(c_CHI6b,c_CHI9p,TSV_BASIC) PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name	: setup_receive_with_valid_cpn		
PDU Type	: SETUP_PDU		
Derivation Path	: setup_o_r.		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	: Receive PDU		
Field Name	Field Value	Field Encoding	Comments
chi	TSO_ASSIGN_CHI(c_CHI6b,c_CHI9p,TSV_BASIC)		
cgpn	c_dss1_CGPN1		
tns	*		
Detailed Comments : chi: c_CHI9p --> TSO_ASSIGN_CHI(c_CHI6b,c_CHI9p,TSV_BASIC) PDU with "don't care" values.			

PDU Constraint Declaration			
Constraint Name : setup_send_with_component (FLAG: INTEGER;CALL_REF: BIT7OR15; comp:Component) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : send PDU			
Field Name	Field Value	Field Encoding	Comments
fie	{c_fIEs(comp)}		Facility i.e with component to be sent
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : setup_valid_calling_party_number(FLAG:INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
cgpn	c_dss1_CGPN1		
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements CGPN and CDPN.			

PDU Constraint Declaration			
Constraint Name : setup_valid_calling_party_number_and_subaddress(FLAG:INTEGER; CALL_REF: BIT7OR15; BCH: BIT7OR8) PDU Type : SETUP_PDU Derivation Path : setup_o_s. Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
cgps	c_dss1_CGPS1		
cdpn	c_dss1_CDPN3		
Detailed Comments : PDU with optional information elements CGPN and CDPN.			

PDU Constraint Declaration			
Constraint Name : suspend_ack_o_r(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : SUSPEND_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00101101'B		
dsp	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : suspend_ack_o_s(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : SUSPEND_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00101101'B		
dsp	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : suspend_o_r(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : SUSPEND_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100101'B		
cid	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : suspend_o_s(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : SUSPEND_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100101'B		
cid	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : user_info_o_r(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : USER_INFO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100100'B		
md	*		
uui	c_dss1_UUI1 (33, TSC_UUI_32)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : user_info_o_r_104 (FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : USER_INFO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100100'B		
md	*		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : user_info_o_s(FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : USER_INFO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100100'B		
md	–		
uui	c_dss1_UUI1 (33, TSC_UUI_32)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : user_info_o_s_104 (FLAG:INTEGER; CALL_REF:BIT7OR15) PDU Type : USER_INFO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Send PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR18 (FLAG,CALL_REF)		
mt	'00100100'B		
md	—		
uui	c_dss1_UUI1 (105, TSC_UUI_104)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : notification_o_r(CALL_REF: BIT7OR15;val:OCTETSTRING) PDU Type : NOTIFY_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Receive PDU			
Field Name	Field Value	Field Encoding	Comments
pd	'00001000'B		
cr	c_dss1_CR32(CALL_REF)		
mt	'01101110'B		
noid	c_dss1_NOID2(val)		
dsp	*		
ronn	—		
Detailed Comments : PDU with "don't care" values.			

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_m (ClCnr:BIT_12)
PDU Type	: ACM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ACM with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par (ClCnr), messageType TSC_msgACM, backwardCallInd c_Backward_call_indicators, opt_part_ptr '00'O }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_o (ClCnr:BIT_12)
PDU Type	: ACM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ACM with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par (ClCnr), messageType TSC_msgACM, backwardCallInd c_Backward_call_indicators , opt_part_ptr '01'O, acmOptionals { optBackwardCallInd c_Optional_backward_call_indicators , callReference c_Call_reference, --Not in ISUP 4.2 causeInd c_Cause_indicators, userToUserInd c_User_to_user_indicators, userToUserInfo c_User_to_user_information, accessTransport c_Access_transport , genericNotificationInd c_Generic_notification_indicator, transMediumUsed c_Transmission_medium_used, echoControllInfo c_Echo_control_information, accessDeliveryInfo c_Access_delivery_information, redirectionNum c_Redirection_number, paramCompatibilityInfo c_Parameter_compatibility_information, callDiversionInfo c_Call_diversion_information, networkFacility c_Network_specific_facility, remoteOperations c_Remote_operations , serviceActivation c_Service_activation, redirectionNumRest c_Redirection_number_restriction, routelndentity c_Route_identity, callTransferTreatmentInd c_Call_transfer_treatment_indicators, conferenceTreatmentInd c_Conference_treatment_indicators }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: NOTE: same asACM_m, but created & used for isolation of possible change effects.
Constraint Value	
REPLACE backwardCallInd BY c_Backward_call_indicators	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_Generic_notification_ind_waiting (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive Generic Notification indication with call waiting
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_waiting }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_UUI_explicit_response_service1_provided_and_UUInf (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information.
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'10'B,'00'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_UUI_service1_response_not_provided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'01'B,'00'B,'00'B,'0'B) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_UUI_service2_response_not_provided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'01'B,'00'B,'0'B) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_UserToUserInd_NetworkDiscard (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information discarded by the network
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters('1'B,'00'B,'00'B,'00'B,'1'B) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_UserToUserInfo_UserToUserInd_s1_s2 (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive UUInf and UUInd
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'10'B,'10'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_With_cdiv_info_natRnNb (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFU_and_unknown } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_red_numb_pres_allowed (CICnr:BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest, redirectionNumRest c_Redirection_number_presentation_allowed } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_AB_red_numb_pres_rest (CICnr:BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest, redirectionNumRest c_Redirection_number_presentation_rest }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: NOTE: same asACM_m, but created & used for isolation of possible change effects.
Constraint Value	
REPLACE backwardCallInd BY c_Backward_call_indicators	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_BCI_called_status_no_indication (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Called party status indicator set to no indication and charge no indication
Constraint Value	
REPLACE backwardCallInd BY c_BCI_called_status_no_indication_charge_no_indication	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_Generic_notification_ind_waiting (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive Generic Notification indication with call waiting
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_waiting }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UUI_explicit_response_service1_no_information (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information.
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'00'B,'0'B) } ,	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UUI_explicit_response_service1_provided_and_UUInf (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information.
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'10'B,'00'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information } ,	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UUI_explicit_response_service2_provided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'10'B,'00'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UserToUserInd_NetworkDiscard (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information discarded by the network
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'00'B,'1'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UserToUserInd_Service1NoInformation (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information service 1 not provided
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'00'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UserToUserInd_Service1NotProvided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information service 1 not provided
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'01'B,'00'B,'00'B,'0'B) } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UserToUserInfo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive UUInf
Constraint Value	
REPLACE acmOptionals BY { userToUserInfo c_User_to_user_information } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_UserToUserInfo_UserToUserInd (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive UUInf and UUInd
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'10'B,'00'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_BCI_no_ind_cdiv_info_redirection_number_and_gen_not_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE backwardCallInd BY c_BCI_subs_status_no_ind , REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_national_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_OBCI_CDmo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with Optional BCI as Call Diversion may occur.
Constraint Value	
REPLACE backwardCallInd BY c_BCI_called_status_no_indication_charge_no_indication , REPLACE acmOptionals BY { optBackwardCallInd c_OBCI_CDmo } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_cdiv_info_and_gen_notification_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_redirection_number_international_cdiv_info_and_gen_notification_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_international_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_redirection_number_international_with_prefix_cdiv_info_and_gen_notification_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_international_with_prefix_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_redirection_number_national_cdiv_info_and_gen_notification_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_national_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_BA_With_redirection_number_restriction (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { redirectionNum c_Redirection_number_national_after_second_diversion_send , paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_r_UA_UUI_explicit_response_service2_provided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals	BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'10'B,'00'B,'0'B) }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_AB_UUI_explicit_response_service1_provided_and_UUInf (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'10'B,'00'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_AB_UserToUserInfo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf
Constraint Value	
REPLACE acmOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_32octet_UserToUserInfo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send 32 octets UUInf
Constraint Value	
REPLACE acmOptionals BY { userToUserInfo c_dss1_UUI32 }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_BCI_called_status_no_indication (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Called party status indicator set to no indication and charge no indication
Constraint Value	
REPLACE backwardCallInd BY c_BCI_called_status_no_indication_charge_no_indication	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_Generic_notification_ind_waiting (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send Generic Notification indication with call waiting
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_waiting }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UUI_explicit_response_service1_no_information (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'00'B,'0'B) }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UUI_explicit_response_service1_provided_and_UUInf (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information.
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'10'B,'00'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UUI_explicit_response_service2_provided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'10'B,'00'B,'0'B) } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UserToUserInd_NetworkDiscard (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information discarded by the network
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'00'B,'1'B) } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UserToUserInd_Service1NoInformation (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information service 1 not provided
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'00'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UserToUserInd_Service1NotProvided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: user to user information service 1 not provided
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'01'B,'00'B,'00'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UserToUserInfo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf
Constraint Value	
REPLACE acmOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UserToUserInfo_UserToUserInd (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf and UUInd
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'10'B,'00'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_UserToUserInfo_UserToUserInd_s1_s2 (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf and UUInd
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'10'B,'10'B,'00'B,'0'B) , userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_BCI_no_ind_cdiv_info_redirection_number_and_gen_not_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE backwardCallInd BY c_BCI_subs_status_no_ind , REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_national_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_CdPSI_subs_free_OBCI_CDmo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with Optional BCI as Call Diversion may occur.
Constraint Value	
REPLACE backwardCallInd BY c_BCI_called_status_sub_free_charge_no_indication, REPLACE acmOptionals BY { optBackwardCallInd c_OBCI_CDmo }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_OBCI_CDmo (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with Optional BCI as Call Diversion may occur.
Constraint Value	
REPLACE backwardCallInd BY c_BCI_called_status_no_indication_charge_no_indication , REPLACE acmOptionals BY { optBackwardCallInd c_OBCI_CDmo }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CD_imm_resp_and_restriction_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CD_imm_resp }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CFB_and_pres_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
<pre> REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFB } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number presentation allowed in Call diversion information.
Constraint Value	
<pre> REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFU_and_presentation_allowed } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_without_RNb_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number presentation allowed in Call diversion information.
Constraint Value	
<pre> REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFU_and_pres_allowed_without_RNb } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CFU_and_pres_not_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number presentation allowed in Call diversion information.
Constraint Value	
<pre> REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFU_and_pres_not_allowed } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CFU_and_restriction_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
<pre> REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_national_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_cdiv_info_with_CFU_and_unknown_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number presentation allowed in Call diversion information.
Constraint Value	
<pre> REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFU_and_unknown } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_no_ind_cdiv_info_with_CFU_and_pres_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number presentation allowed in Call diversion information.
Constraint Value	
REPLACE backwardCallInd BY c_BCI_called_status_no_indication_charge_no_indication , REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send, paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind, callDiversionInfo c_Cdiv_info_with_CFU_and_presentation_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_redirection_number_international_foreign_CC_cdiv_info_and_gen_notificatio n_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_international_foreign_CC_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_redirection_number_international_own_CC_cdiv_info_and_gen_notification_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_international_own_CC_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_redirection_number_national_cdiv_info_and_gen_notification_ind (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_national_send , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BA_With_redirection_number_restriction (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ACM with redirection number restriction allowed.
Constraint Value	
REPLACE acmOptionals	BY { redirectionNum c_Redirection_number_national_after_second_diversion_send , paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BU_UUI_explicit_response_service2_provided (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE acmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'10'B,'00'B,'0'B) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ACM_s_BU_UserToUserInf (CICnr: BIT_12)
PDU Type	: ACM
Derivation Path	: ACM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUIInf
Constraint Value	
REPLACE acmOptionals BY { userToUserInfo c_User_to_user_information } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_m (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ANM with mandatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msgANM, opt_part_ptr '00'O } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_o (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ANM with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> { cic c_Cic_par (CICnr), messageType TSC_msgANM, opt_part_ptr '01'O, anmOptionals { backwardCallInd c_Backward_call_indicators_o , optBackwardCallInd c_Optional_backward_call_indicators , callReference c_Call_reference , userToUserInd c_User_to_user_indicators, userToUserInfo c_User_to_user_information, connectedNum c_Connected_number_not_available, accessTransport c_Access_transport , accessDeliveryInfo c_Access_delivery_information, genericNotificationInd c_Generic_notification_indicator , paramCompatibilityInfo c_Parameter_compatibility_information, backwardGVNS c_Backward_GVNS , callHistoryInfo c_Call_history_information , genericNum c_Generic_number, transMediumUsed c_Transmission_medium_used, networkFacility c_Network_specific_facility, remoteOperations c_Remote_operations , redirectionNum c_Redirection_number , serviceActivation c_Service_activation , echoControlInfo c_Echo_control_information, redirectionNumRest c_Redirection_number_restriction, callTransferTreatmentInd c_Call_transfer_treatment_indicators }, endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> REPLACE anmOptionals BY { connectedNum c_Connected_number } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_ISDN (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_ISDN }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_MSN (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_MSN }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_address_na (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_address_na }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_np (ClCnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_np }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_np_generic_number (ClCnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_np , genericNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_np_generic_number_pr (ClCnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_np, genericNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_up_verified_passed (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_up_verified_passed_pr (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_up_verified_passed_subaddress (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number, accessTransport c_Access_transport }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_Connected_number_up_verified_passed_subaddress_pr (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number, accessTransport c_Access_transport }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_National_connected_number (CiCnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is received .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_UUI_service3_response_not_provided (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY {	
userToUserInd	c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B)
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_User_to_user_info (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive User to User Information
Constraint Value	
REPLACE anmOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_User_to_user_info_s3 (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: UUS3 explicit response
Constraint Value	
REPLACE anmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'10'B,'0'B), userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_User_to_user_info_s3_not_provided (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: UUS3 explicit response
Constraint Value	
REPLACE anmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B), userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_red_numb_pres_allowed (CICnr:BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_presentation_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_AB_red_numb_pres_rest (CICnr:BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_presentation_rest }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msgANM, opt_part_ptr '00'O }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_International_connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_International_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_National_connected_and_generic_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_network_provided_with_own_country_code , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param, genericNum c_Generic_number_with_national_connected_number }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_National_connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_User_to_user_info (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive User to User Information
Constraint Value	
REPLACE anmOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_With_redirection_number_restriction (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ANM with redirection number restriction allowed.
Constraint Value	
REPLACE anmOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest, redirectionNum c_Redirection_number_national_after_second_diversion , redirectionNumRest c_Redirection_number_restriction_allowed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_With_redirection_number_restriction_with_default_connected_number_and_generic_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number_network_provided , paramCompatibilityInfo c_PCI_for_redirection_num_rest_and_generic_number, genericNum c_Generic_number_with_national_connected_number , redirectionNum c_Redirection_number_national_after_second_diversion , redirectionNumRest c_Redirection_number_restriction_allowed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_connectedNum_AddrPresentRestInd_01 (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY {	
connectedNum	c_Connected_number_available
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_r_BA_connectedNum_AddrPresentRestInd_and_GenNb_01 (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY {	
connectedNum	c_Connected_number_available ,
genericNum	c_Generic_number_AddrPresentRestInd_01
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_AB_Connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_AB_National_connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_AB_User_to_user_info (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY {	
userToUserInfo	c_User_to_user_information
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_AU_National_connected_and_generic_number_A (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE anmOptionals BY { <div style="margin-left: 40px;"> connectedNum c_National_connected_number_network_provided , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param , genericNum c_Generic_number_with_national_connected_number } </div>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_AU_National_connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_32octet_UserToUserInfo (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send 32 octets UUInf
Constraint Value	
REPLACE anmOptionals BY { <div style="margin-left: 80px;">userToUserInfo c_dss1_UUI32</div> }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_ChInf (CICnr: BIT_12; ChInf_v:OCT_2)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { callHistoryInfo c_Call_history_information_par (ChInf_v) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_National_connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_National_connected_number_user_provided_passed (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number_user_provided_passed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_UUI_service3_response_provided (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'10'B,'0'B) }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_User_to_user_info (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_User_to_user_info_s3 (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: UUS3 explicit response
Constraint Value	
REPLACE anmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'10'B,'0'B), userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_User_to_user_info_s3_not_provided (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: UUS3 explicit response
Constraint Value	
REPLACE anmOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B), userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_connectedNum_AddrPresentRestInd_01 (C ICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_available } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_connectedNum_AddrPresentRestInd_01_discarded (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_Connected_number_available_discarded } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BA_connectedNum_AddrPresentRestInd_and_GenNb_01 (C ICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY {	
connectedNum	c_Connected_number_available ,
genericNum	c_Generic_number_AddrPresentRestInd_01
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BU_National_connected_number (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BU_National_connected_number_and_ATP (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE anmOptionals BY { connectedNum c_National_connected_number_network_provided , accessTransport c_Access_transport , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param , genericNum c_Generic_number_with_national_connected_number }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: ANM_s_BU_UserToUserInf (CICnr: BIT_12)
PDU Type	: ANM
Derivation Path	: ANM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE anmOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: BLA_m (CICnr: BIT_12)
PDU Type	: BLA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for BLockingAcknowledement message
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msggBLA }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: BLO_m (CICnr: BIT_12)
PDU Type	: BLO
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for BLOcking message
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgBLO }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CCR_m (CICnr: BIT_12)
PDU Type	: CCR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Continuity Check Request message.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgCCR }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CFN_m (CICnr:BIT_12)
PDU Type	: CFN
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ConFusioN message with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par (CICnr) , messageType TSC_msgCFN , causeInd c_Cause_indicators }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CFN_r (CICnr:BIT_12 ; cause_value : BIT_7 ; diagnostics : OCT_N)
PDU Type	: CFN
Derivation Path	: CFN_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags (?, cause_value, diagnostics)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CFN_s (CICnr:BIT_12 ; LOC:BIT_4;cause_value : BIT_7 ; diagnostics : OCT_N)
PDU Type	: CFN
Derivation Path	: CFN_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags (LOC, cause_value, diagnostics)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CFN_s_AB_Cause_29_and_diagnostics_for_UUI (CICnr: BIT_12)
PDU Type	: CFN
Derivation Path	: CFN_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CFN (Confusion) message, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags ('0000'B , '0011101'B, '2A'O)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CGBA_m (CICnr: BIT_12)
PDU Type	: CGBA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Circuit Group Blocking Acknowledgement with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgCGBA , circuitGroupSupervMsgInd c_Circuit_group_supervision_message_type_indicator , rangeAndStatus c_Range_and_status }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CGB_m (CICnr: BIT_12)
PDU Type	: CGB
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Circuit Group Blocking message with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgCGB , circuitGroupSupervMsgInd c_Circuit_group_supervision_message_type_indicator , rangeAndStatus c_Range_and_status }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CGUA_m (CICnr: BIT_12)
PDU Type	: CGUA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Circuit Group Unblocking Acknowledgement with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgCGUA , circuitGroupSupervMsgInd c_Circuit_group_supervision_message_type_indicator , rangeAndStatus c_Range_and_status }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CGU_m (CICnr: BIT_12)
PDU Type	: CGU
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Circuit Group Unblocking with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgCGU , circuitGroupSupervMsgInd c_Circuit_group_supervision_message_type_indicator , rangeAndStatus c_Range_and_status }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_m (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Connect with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgCON , backwardCallInd c_Backward_call_indicators, opt_part_ptr '00'O }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_o (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for CON with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> { cic c_Cic_par(CICnr) , messageType TSC_msgCON , backwardCallInd c_Backward_call_indicators , opt_part_ptr '01'O, conOptionals { optBackwardCallInd c_Optional_backward_call_indicators, backwardGVNS c_Backward_GVNS , callReference c_Call_reference, userToUserInd c_User_to_user_indicators, userToUserInfo c_User_to_user_information, connectedNum c_Connected_number_not_available, accessTransport c_Access_transport , accessDeliveryInfo c_Access_delivery_information, genericNotificationInd c_Generic_notification_indicator, paramCompatibilityInfo c_Parameter_compatibility_information, callHistoryInfo c_Call_history_information_par ('FFFF'O), --- Temporary Value genericNum c_Generic_number, transMediumUsed c_Transmission_medium_used, networkFacility c_Network_specific_facility, remoteOperations c_Remote_operations, redirectionNum c_Redirection_number, serviceActivation c_Service_activation, echoControlInfo c_Echo_control_information, routeIdentity c_Route_identity , redirectionNumRest c_Redirection_number_restriction, callTransferTreatmentInd c_Call_transfer_treatment_indicators , conferenceTreatmentInd c_Conference_treatment_indicators } , endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for CON with Connected number
Constraint Value	
<pre> REPLACE conOptionals BY { connectedNum c_Connected_number } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_ISDN (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_ISDN }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_MSN (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_MSN }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_address_na (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_address_na }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_np }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_generic_number (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_np, genericNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_generic_number_pr (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_np, genericNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_generic_number_subaddress (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_np, accessTransport c_Access_transport, genericNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_generic_number_subaddress_pr (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_network_provided_with_own_country_code , accessTransport c_Access_transport_called_party_sub_address_AB, paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param, genericNum c_Generic_number_with_national_connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_pr (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_np }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_subaddress (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_np, accessTransport c_Access_transport }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_np_subaddress_pr (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { <div style="margin-left: 40px;"> connectedNum c_Connected_number_np, accessTransport c_Access_transport </div> }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_pr (ClCnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_pr }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_up_verified_passed (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_up_verified_passed_pr (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_Connected_number_up_verified_passed_subaddress (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number, accessTransport c_Access_transport }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_UUI_service3_response_provided (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters('1'B,'00'B,'00'B,'10'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_red_numb_pres_allowed (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest, redirectionNumRest c_Redirection_number_presentation_allowed } }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_AB_red_numb_pres_rest (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_presentation_rest } }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_Connected_number_with_prefix (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received with prefix and nature of address indicator set to unknown
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_with_prefix } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_International_connected_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received
Constraint Value	
REPLACE conOptionals BY { connectedNum c_International_connected_number } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_National_connected_and_generic_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number received
Constraint Value	
REPLACE conOptionals BY { <div style="margin-left: 40px;"> connectedNum c_Connected_number_network_provided_with_own_country_code , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param, genericNum c_Generic_number_with_national_connected_number </div> }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_National_connected_number (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for CON with Connected number
Constraint Value	
REPLACE conOptionals BY { connectedNum c_National_connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_National_connected_number_Network_provided (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { connectedNum c_National_connected_number_network_provided }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_connectedNum_AddrPresentRestInd_01 (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_available }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_r_BA_connectedNum_AddrPresentRestInd_and_GenNb_01 (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals	BY { connectedNum c_Connected_number_available , genericNum c_Generic_number_AddrPresentRestInd_01 }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_AB_Connected_number (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for CON with Connected number
Constraint Value	
REPLACE conOptionals	BY { connectedNum c_Connected_number }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_AB_National_connected_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals	BY { connectedNum c_National_connected_number }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_AB_UUI_service3_response_not_provided (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_Connected_and_generic_number_with_own_country_code (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_network_provided_with_own_country_code , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param, genericNum c_Generic_number_with_connected_number_with_own_country_code } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_Connected_number_pr (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_pr } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_Connected_number_pr_generic_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { <div style="margin-left: 40px;"> connectedNum c_Connected_number_pr, genericNum c_Connected_number </div> }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_Connected_number_with_foreign_country_code (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_with_foreign_country_code } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_Connected_number_with_own_country_code (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for CON with Connected number
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_with_own_country_code } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_National_connected_and_generic_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number sent.
Constraint Value	
REPLACE conOptionals BY { connectedNum c_National_connected_number_network_provided , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param, genericNum c_Generic_number_with_national_connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_National_connected_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number sent
Constraint Value	
REPLACE conOptionals BY { connectedNum c_National_connected_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_National_connected_number_user_provided_passed (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number is sent .
Constraint Value	
REPLACE conOptionals BY { connectedNum c_National_connected_number_user_provided_passed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_With_redirection_number_restriction (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CON with redirection number restriction allowed.
Constraint Value	
REPLACE conOptionals	BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest, redirectionNum c_Redirection_number_national_after_second_diversion_send , redirectionNumRest c_Redirection_number_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_With_redirection_number_restriction_with_default_connected_number_and_generic_number (CICnr: BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Connected number sent.
Constraint Value	
REPLACE conOptionals	BY { connectedNum c_National_connected_number_network_provided , paramCompatibilityInfo c_PCI_for_redirection_num_rest_and_generic_number , genericNum c_Generic_number_with_national_connected_number , redirectionNum c_Redirection_number_national_after_second_diversion_send , redirectionNumRest c_Redirection_number_restriction_allowed }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_connectedNum_AddrPresentRestInd_01 (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals	BY { connectedNum c_Connected_number_available }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CON_s_BA_connectedNum_AddrPresentRestInd_and_GenNb_01 (CICnr:BIT_12)
PDU Type	: CON
Derivation Path	: CON_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE conOptionals BY { connectedNum c_Connected_number_available , genericNum c_Generic_number_AddrPresentRestInd_01 }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: COT_m (CICnr: BIT_12)
PDU Type	: COT
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for succesfull Continuity check with mandatatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgCOT , continuityInd c_Continuity_indicators }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_m (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for CPG with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgCPG , eventInfo c_Event_information_Alerting, opt_part_ptr '00'O }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_o (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for CPG with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> { cic c_Cic_par(CICnr) , messageType TSC_msgCPG , eventInfo c_Event_information_Alerting , opt_part_ptr '01'O, cpgOptionals { optBackwardCallInd c_Optional_backward_call_indicators , callReference c_Call_reference , backwardCallInd c_Backward_call_indicators_o, causeInd c_Cause_indicators , userToUserInd c_User_to_user_indicators , userToUserInfo c_User_to_user_information, accessTransport c_Access_transport , genericNotificationInd c_Generic_notification_indicator , transMediumUsed c_Transmission_medium_used , echoControllInfo c_Echo_control_information , accessDeliveryInfo c_Access_delivery_information , redirectionNum c_Redirection_number , paramCompatibilityInfo c_Parameter_compatibility_information , callDiversionInfo c_Call_diversion_information , networkFacility c_Network_specific_facility , remoteOperations c_Remote_operations , serviceActivation c_Service_activation , redirectionNumRest c_Redirection_number_restriction, callTransferNumber c_Call_transfer_number , callTransferTreatmentInd c_Call_transfer_treatment_indicators , conferenceTreatmentInd c_Conference_treatment_indicators } , endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_conf_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpgOptionals BY { genericNotificationInd c_Generic_notification_ind_conf_disc } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_conf_est (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_conf_est } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_generic_notification_indicator } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_hold (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_hold } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_isolated (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_isolated }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_other_party_add (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_other_party_add }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_other_party_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_other_party_disc }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_reattached (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_reattached
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_retrieve (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_retrieve
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_Generic_notification_ind_waiting (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_waiting
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_International_call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpgOptionals	BY { genericNotificationInd c_Generic_notification_ind_ct_active, paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator, callTransferNumber c_International_call_transfer_number }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_National_call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpgOptionals	BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator, callTransferNumber c_National_call_transfer_number }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_With_resume (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpgOptionals	BY { genericNotificationInd c_Generic_notification_ind_resume }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_With_suspend (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_suspend
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_red_numb_pres_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions	BY {
	paramCompatibilityInfo c_PCI_for_redirection_num_rest ,
	redirectionNumRest c_Redirection_number_presentation_allowed
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_AB_red_numb_pres_rest (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions	BY {
	paramCompatibilityInfo c_PCI_for_redirection_num_rest ,
	redirectionNumRest c_Redirection_number_presentation_rest
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_conf_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to Conference Disconnected.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_conf_disc }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_conf_est (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to Conference Established.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_conf_est }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_hold (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_hold }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_other_party_add (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to Other Party Added.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_other_party_add }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_other_party_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to Other Party Disconnected.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_other_party_disc }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_other_party_isolated (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to other party isolated.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_other_party_isolated }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_other_party_reattached (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to other party reattached.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_other_party_reattached }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_other_party_split (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to other party split.
Constraint Value	
REPLACE eventInfo BY c_Event_information_progress, REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_other_party_split }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_retrieve (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_retrieve }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_Generic_notification_ind_waiting (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_waiting }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_alerting (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions	BY { redirectionNum c_Redirection_number_national_after_second_diversion, paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_restriction_restricted }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_alerting_and_redirection_num_rest (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions	BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_restriction_restricted }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_alerting_with_redirection_number_restriction_as_restricted (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptional BY {	
redirectionNum	c_Redirection_number_national_send ,
paramCompatibilityInfo	c_PCI_for_redirection_num_rest,
redirectionNumRest	c_Redirection_number_restriction_restricted
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_cdiv_info_and_redirection_number (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpOptional BY { genericNotificationInd c_Generic_notification_ind_call_diverting , redirectionNum c_Redirection_number_national , paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind , callDiversionInfo c_Cdiv_info_default } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_cdiv_info_as_restriction_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
paramCompatibilityInfo	c_PCI_for_cdiv_info,
callDiversionInfo	c_Cdiv_info_with_CFU_and_restriction_allowed
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_cdiv_info_with_CFB (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
genericNotificationInd	c_Generic_notification_ind_call_diverting ,
redirectionNum	c_Redirection_number_national ,
paramCompatibilityInfo	c_PCI_for_cdiv_info_and_gen_notification_ind ,
callDiversionInfo	c_Cdiv_info_with_CFB
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_cdiv_info_with_CFNr (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
genericNotificationInd	c_Generic_notification_ind_call_diverting ,
redirectionNum	c_Redirection_number_national_send ,
paramCompatibilityInfo	c_PCI_for_cdiv_info_and_gen_notification_ind ,
callDiversionInfo	c_Cdiv_info_with_CFNr
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_cdiv_info_with_CFU_and_restriction_allowed_with_redirection_number (CICnr: BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CPGwith redirection number restriction allowed.
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_call_diverting ,
	redirectionNum c_Redirection_number_national ,
	paramCompatibilityInfo c_PCI_for_cdiv_info_and_gen_notification_ind,
	callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_With_event_alerting (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Alerting
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_BA_explicit_response_service2_provided (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with UUS2 explicit response, Service2 provided
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress,
REPLACE cpOptions	BY {
	userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'10'B,'00'B,'0'B)
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_UA_Generic_notification_ind_hold (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_hold, paramCompatibilityInfo c_PCI_for_generic_notification_indicator } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_UB_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_generic_notification_indicator } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_UB_Generic_notification_ind_ct_active_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_generic_notification_indicator , serviceActivation c_Service_activation_call_transfer } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE cpOptionsals BY { genericNotificationInd c_Generic_notification_ind_ct_active, paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , serviceActivation c_Service_activation_call_transfer, callTransferNumber c_National_call_transfer_number }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptionsals BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator, callTransferNumber c_Call_transfer_number_presentation_restricted }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_conf_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpOptionsals BY { genericNotificationInd c_Generic_notification_ind_conf_disc }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_conf_est (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_conf_est
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_ct_active ,
	paramCompatibilityInfo c_PCI_for_generic_notification_indicator
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_hold (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_hold
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_isolated (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_isolated
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_other_party_add (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_other_party_add
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_other_party_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_other_party_disc
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_reattached (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_reattached
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_Generic_notification_ind_retrieve (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_retrieve
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_International_call_transfer_number_of_own_CC_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for CPG with generic notification parameter and international call transfer number
Constraint Value	
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_ct_active ,
	paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator,
	callTransferNumber c_International_call_transfer_number_of_own_CC
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_AB_National_call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator, callTransferNumber c_National_call_transfer_number }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_Generic_notification_ind_conf_disc (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to Conference Disconnected.
Constraint Value	
REPLACE eventInfo	BY c_Event_information_progress,
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_conf_disc }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_Generic_notification_ind_conf_est (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Call ProGress message with optional parameters with generic notification indicator set to Conference Established.
Constraint Value	
REPLACE eventInfo	BY c_Event_information_progress,
REPLACE cpOptions	BY { genericNotificationInd c_Generic_notification_ind_conf_est }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_Generic_notification_ind_hold (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_hold
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_Generic_notification_ind_retrieve (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_retrieve
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_Generic_notification_ind_waiting (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
	genericNotificationInd c_Generic_notification_ind_waiting
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_and_No_redirection_num_rest (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpGOptionalS BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send_second, callDiversionInfo c_Cdiv_info_with_CFU_and_presentation_allowed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpGOptionalS BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest, callDiversionInfo c_Cdiv_info_with_CFU_and_presentation_allowed, redirectionNumRest c_Redirection_number_presentation_allowed }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_and_redirection_num_rest (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpGOptionalS BY { paramCompatibilityInfo c_PCI_for_redirection_num_rest , redirectionNumRest c_Redirection_number_restriction_restricted }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_and_unknown_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send_second, paramCompatibilityInfo c_PCI_for_redirection_num_rest , callDiversionInfo c_Cdiv_info_with_CFU_and_unknown, redirectionNumRest c_Redirection_number_restriction_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_pres_allowed_without_RNb_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send_second, paramCompatibilityInfo c_PCI_for_redirection_num_rest , callDiversionInfo c_Cdiv_info_with_CFU_and_pres_allowed_without_RNb, redirectionNumRest c_Redirection_number_restriction_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_pres_not_allowed_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpGOptionals BY { genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number_national_send_second, paramCompatibilityInfo c_PCI_for_redirection_num_rest , callDiversionInfo c_Cdiv_info_with_CFU_and_pres_not_allowed, redirectionNumRest c_Redirection_number_restriction_allowed } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_alerting_with_redirection_number_restriction_as_restricted (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Alerting, REPLACE cpGOptionals BY { redirectionNum c_Redirection_number_national_send , paramCompatibilityInfo c_PCI_for_redirection_num_rest, redirectionNumRest c_Redirection_number_restriction_restricted } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_cdiv_info_as_restriction_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo BY c_Event_information_Progress , REPLACE cpGOptionals BY { paramCompatibilityInfo c_PCI_for_cdiv_info, callDiversionInfo c_Cdiv_info_with_CFU_and_restriction_allowed } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_cdiv_info_with_CD_during_alert (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
genericNotificationInd	c_Generic_notification_ind_call_diverting,
redirectionNum	c_Redirection_number_national_send_second,
paramCompatibilityInfo	c_PCI_for_cdiv_info_and_gen_notification_ind,
callDiversionInfo	c_Cdiv_info_with_CD_during_alerting
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_cdiv_info_with_CD_imm_resp (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Alerting ,
REPLACE cpOptions	BY {
genericNotificationInd	c_Generic_notification_ind_call_diverting,
redirectionNum	c_Redirection_number_national_send_second,
paramCompatibilityInfo	c_PCI_for_cdiv_info_and_gen_notification_ind ,
callDiversionInfo	c_Cdiv_info_with_CD_imm_resp
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_cdiv_info_with_CFB_with_redirection_number (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_CFB ,
REPLACE cpOptions	BY {
genericNotificationInd	c_Generic_notification_ind_call_diverting,
redirectionNum	c_Redirection_number_national_send_second,
paramCompatibilityInfo	c_PCI_for_cdiv_info_and_gen_notification_ind,
callDiversionInfo	c_Cdiv_info_with_CFB
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_cdiv_info_with_CFNr (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
genericNotificationInd	c_Generic_notification_ind_call_diverting,
redirectionNum	c_Redirection_number_national_send,
paramCompatibilityInfo	c_PCI_for_cdiv_info_and_gen_notification_ind ,
callDiversionInfo	c_Cdiv_info_with_CFNr_send
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_With_progress_and_no_RNb2 (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE eventInfo	BY c_Event_information_Progress ,
REPLACE cpOptions	BY {
paramCompatibilityInfo	c_PCI_for_redirection_num_rest ,
callDiversionInfo	c_Cdiv_info_with_CFU_and_presentation_allowed,
redirectionNumRest	c_Redirection_number_presentation_allowed
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_noind_pres_allowed_RNb3_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptions	BY {
backwardCallInd	c_BCI_called_status_no_indication_charge_no_indication ,
genericNotificationInd	c_Generic_notification_ind_call_diverting,
redirectionNum	c_Redirection_number3_national_send,
paramCompatibilityInfo	c_PCI_for_redirection_num_rest ,
callDiversionInfo	c_Cdiv_info_with_CFU_and_presentation_allowed,
redirectionNumRest	c_Redirection_number_restriction_allowed
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_noind_pres_allowed_without_RNb_RNb4_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptionalBy { backwardCallInd c_BCI_called_status_no_indication_charge_no_indication , genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number4_national_send, paramCompatibilityInfo c_PCI_for_redirection_num_rest, callDiversionInfo c_Cdiv_info_with_CFU_and_pres_allowed_without_RNb, redirectionNumRest c_Redirection_number_restriction_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BA_noind_pres_not_allowed_RNb2_and_redirection_num_allowed (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE cpOptionalBy { backwardCallInd c_BCI_called_status_no_indication_charge_no_indication , genericNotificationInd c_Generic_notification_ind_call_diverting, redirectionNum c_Redirection_number2_national_send, paramCompatibilityInfo c_PCI_for_redirection_num_rest , callDiversionInfo c_Cdiv_info_with_CFU_and_pres_not_allowed, redirectionNumRest c_Redirection_number_restriction_allowed }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: CPG_s_BU_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: CPG
Derivation Path	: CPG_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE cpgOptionals BY { genericNotificationInd c_Generic_notification_ind_ct_active , paramCompatibilityInfo c_PCI_for_generic_notification_indicator }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CQM_m (CICnr: BIT_12)
PDU Type	: CQM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Circuit group Query Message with mandatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr) , messageType TSC_msgCQM , rangeAndStatus c_Range_and_status } }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CQR_m (CICnr: BIT_12)
PDU Type	: CQR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Circuit group Query Response with mandatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr) , messageType TSC_msgCQR, rangeAndStatus c_Range_and_status , circuitStateInd c_Circuit_state_indicator } }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: CRG_o (CICnr: BIT_12)
PDU Type	: CRG
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for CRG with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par (CICnr) , messageType TSC_msgCRG , crgOptionals { -- paramCompatibilityInfo c_Parameter_compatibility_information , meterPulseInd c_Meter_pulse_indicator , tariffInd c_Tariff_indicator } , endOfOp '00'O } -- end of CRG sequence</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAA_m (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FACility Accepted.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType '00100000'B , facilityInd c_Facility_indicator }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAA_o (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAR with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType '00100000'B , facilityInd c_Facility_indicator , farOptionals { userToUserInd c_User_to_user_indicators, callReference c_Call_reference, connectionRequest c_Connection_request, paramCompatibilityInfo c_Parameter_compatibility_information } , endOfOp TSC_EOP }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAA_r_AB_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAA_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAA
Constraint Value	
<pre>REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'10'B,'0'B) }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAA_s_BA_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAA_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAA
Constraint Value	
REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'10'B,'0'B) }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_m (CICnr: BIT_12)
PDU Type	: FAC
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Facility with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgFAC, opt_part_ptr '00'O }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_o (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAC with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> { cic c_Cic_par(CICnr) , messageType TSC_msgFAC , opt_part_ptr '01'O, facOptionals { messageCompatibilityInfo c_Message_compatibility_information , paramCompatibilityInfo c_Parameter_compatibility_information , remoteOperations c_Remote_operations, serviceActivation c_Service_activation, callTransferNumber c_Call_transfer_number, accessTransport c_Access_transport , genericNotificationInd c_Generic_notification_indicator } , endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_AB_ATP_calling_party_sub_address (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> REPLACE facOptionals BY { accessTransport c_Access_transport_calling_party_sub_address_AB } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_AB_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_AB_International_call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , callTransferNumber c_International_call_transfer_number , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_AB_National_call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , callTransferNumber c_National_call_transfer_number , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_BA_ATP_called_party_sub_address (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { accessTransport c_Access_transport_called_party_sub_address_BA }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Should be equal toFAC_o (now it contains a FAC with Generic nitification ind.=call transfer active
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA_ATP (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { accessTransport c_Access_transport }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA_Generic_notification_ind_ct_active_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , serviceActivation c_Service_activation_call_transfer, genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA_Generic_notification_ind_ct_alerting (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_alerting }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA_Generic_notification_ind_ct_alerting_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , serviceActivation c_Service_activation_call_transfer, genericNotificationInd c_Generic_notification_ind_ct_alerting }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UA_National_CTNb_and_generic_notification_ind_ct_active_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator, serviceActivation c_Service_activation_call_transfer, callTransferNumber c_National_call_transfer_number, genericNotificationInd c_Generic_notification_ind_ct_active }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UB (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Equal toFAC_r_UA !!!
Constraint Value	
REPLACE facOptionals BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_active }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UB_ATP (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { accessTransport c_Access_transport }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UB_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UB_Generic_notification_ind_ct_active_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , serviceActivation c_Service_activation_call_transfer, genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , serviceActivation c_Service_activation_call_transfer , callTransferNumber c_National_call_transfer_number , genericNotificationInd c_Generic_notification_ind_ct_active } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_AB_ATP_calling_party_sub_address (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals BY { accessTransport c_Access_transport_calling_party_sub_address_AB } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_AB_Call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , callTransferNumber c_Call_transfer_number_presentation_restricted , genericNotificationInd c_Generic_notification_ind_ct_active } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_AB_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_AB_International_call_transfer_number_of_own_CC_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , callTransferNumber c_International_call_transfer_number_of_own_CC , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_AB_National_call_transfer_number_and_generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_CTNb_and_generic_notification_indicator , callTransferNumber c_National_call_transfer_number , genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_BA_ATP_called_party_sub_address (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE facOptionals	BY { accessTransport c_Access_transport_called_party_sub_address_BA }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAC_s_BU_Generic_notification_ind_ct_active (CICnr:BIT_12)
PDU Type	: FAC
Derivation Path	: FAC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE facOptionals	BY { paramCompatibilityInfo c_PCI_for_generic_notification_indicator, genericNotificationInd c_Generic_notification_ind_ct_active }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_m (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAcility Request with mandatory parameters.
Constraint Value	
{	
cic	c_Cic_par(CICnr) ,
messageType	TSC_msgFAR ,
facilityInd	c_Facility_indicator
}	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_o (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAR with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgFAR , facilityInd c_Facility_indicator , farOptionals { userToUserInd c_User_to_user_indicators, callReference c_Call_reference, connectionRequest c_Connection_request, paramCompatibilityInfo c_Parameter_compatibility_information } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_r_AB_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'10'B,'0'B) } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_r_BA_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'10'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_s_AB_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAR
Constraint Value	
REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'10'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_s_BA_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FAR
Constraint Value	
REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'10'B,'0'B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FAR_s_BA_With_inconsistent_information (CICnr: BIT_12)
PDU Type	: FAR
Derivation Path	: FAR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: UUS3 has spare value
Constraint Value	
REPLACE farOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'00'B,'01'B,'0'B) }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FOT_m (CICnr: BIT_12)
PDU Type	: FOT
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FOrward Transfer with mandatatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr) , messageType TSC_msgFOT }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FOT_o (CICnr: BIT_12)
PDU Type	: FOT
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FOT with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par (CICnr) , messageType TSC_msgFOT , fotOptionals { callReference c_Call_reference, paramCompatibilityInfo c_Parameter_compatibility_information }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FRJ_m (CICnr: BIT_12)
PDU Type	: FRJ
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Facility ReJect message with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgFRJ , facilityInd c_Facility_indicator , causeInd c_Cause_indicators }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FRJ_o (CICnr: BIT_12)
PDU Type	: FRJ
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FRJ with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgFRJ , facilityInd c_Facility_indicator , causeInd c_Cause_indicators , frjOptionals { userToUserInd c_User_to_user_indicators } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FRJ_r_BA_Cause29_and_UUI_service3_response_not_provided (CICnr: BIT_12)
PDU Type	: FRJ
Derivation Path	: FRJ_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>REPLACE causeInd BY c_Cause_indicator ('0000'B,'0011101'B), --location user cause 29 REPLACE frjOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B) }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: FRJ_s_AB_Cause29_and_UUI_service3_response_not_provided (CICnr: BIT_12)
PDU Type	: FRJ
Derivation Path	: FRJ_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FRJ with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
REPLACE causeInd BY c_Cause_indicator('0000'B,'0011101'B), --location user cause 29 REPLACE frjOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B) } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FRJ_r_AB_Cause29_and_UUI_service3_response_not_provided (CICnr: BIT_12)
PDU Type	: FRJ
Derivation Path	: FRJ_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for FRJ with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
REPLACE causeInd BY c_Cause_indicator('0000'B,'0011101'B), --location user cause 29 REPLACE frjOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B) } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: FRJ_s_BA_Cause29_and_UUI_service3_response_not_provided (CICnr: BIT_12)
PDU Type	: FRJ
Derivation Path	: FRJ_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicator ('0000'B,'0011101'B) , --location user cause 29 REPLACE frjOptionals BY { userToUserInd c_User_to_user_indicators_WithParameters ('1'B,'00'B,'00'B,'01'B,'0'B) } 	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: GRA_m (CICnr: BIT_12)
PDU Type	: GRA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for circuit Rroup Reset Acknowledgement with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgGRA, var_part_ptr '02'O, rangeAndStatus c_Range_and_status }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: GRS_m (CICnr: BIT_12)
PDU Type	: GRS
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for circuit Group ReSet with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgGRS , rangeAndStatus c_Range_and_status_noStatus }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_anyvalue (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Any parameter value for IAM ONLY for receiving (debug & fault handling purposes).
Constraint Value	
<pre> { cic c_Cic_par (CICnr), messageType TSC_msgIAM, natureOfConnInd ?, forwardCallInd ?, callingPartyCat ?, transmissionMediumReq ?, var_part_ptr '??'O, opt_part_ptr '??'O, calledPartyNum ?, iamOptionals { transitNetworkSel *, callReference *, callingPartyNum *, freePhoneInd *, ccbsPar *, optForwardCallInd *, redirectingNum *, redirectionInfo *, cUGInterlockCode *, connectionRequest *, originalCalledNum *, userToUserInfo *, accessTransport *, userServiceInfo *, userToUserInd *, genericNum *, propDelayCounter *, userServiceInfoPrime *, netwSpecificFacility *, genericDigits *, origISCPPointCode *, userTeleServiceInfo *, remoteOperations *, paramCompatibilityInfo *, routeIdentity *, genericNotificationInd *, serviceActivation *, genericReference *, mLPPprecedence *, transMediumReqPrime *, locationNum *, forwardGVNS *, distrDynRoutInd *, addChargeInfo *, addRoutInfo *, correlationId *, SCFId *, callTransferTreatmentInd *, conferenceTreatmentInd *, callOfferingTreatmentInd *, callDiversionTreatmentInd *, netwCallRef *, }, endOfOp * } </pre>	

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ASN.1 PDU Constraint Declaration	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_m (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msgIAM, natureOfConnInd c_Nature_of_connection_indicators, forwardCallInd c_Forward_call_indicators, callingPartyCat c_Calling_partys_category , transmissionMediumReq c_Transmission_medium_requirement_speech, var_part_ptr '02'O, opt_part_ptr '00'O, calledPartyNum c_Called_party_number_internat_even (TSP_NB_B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_o (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IAM with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre> { cic c_Cic_par (CICnr), messageType TSC_msgIAM, natureOfConnInd c_Nature_of_connection_indicators, forwardCallInd c_Forward_call_indicators, callingPartyCat c_Calling_partys_category , transmissionMediumReq c_Transmission_medium_requirement, var_part_ptr '02'0, opt_part_ptr TSO_COMPUTE_OPT_PTR(), calledPartyNum c_Called_party_number , iamOptionals { transitNetworkSel c_Transit_network_selection, callReference c_Call_reference, callingPartyNum c_Calling_party_number , freePhoneInd c_Freephone_indicators, ccbsPar c_CCBS_parameter , optForwardCallInd c_Optional_forward_call_indicators, redirectingNum c_Redirecting_number, redirectionInfo c_Redirection_information, cUGInterlockCode c_Closed_user_group_interlock_code, connectionRequest c_Connection_request, originalCalledNum c_Original_called_number, userToUserInfo c_User_to_user_information, accessTransport c_Access_transport , userServiceInfo c_User_service_information, userToUserInd c_User_to_user_indicators, genericNum c_Generic_number, propDelayCounter c_Propagation_delay_counter, userServiceInfoPrime c_User_service_information_prime, netwSpecificFacility c_Network_specific_facility, genericDigits c_Generic_digits, origISCPPointCode c_Origination_ISC_point_code, userTeleServiceInfo c_User_teleservice_information, remoteOperations c_Remote_operations, paramCompatibilityInfo c_Parameter_compatibility_information, routIdentity c_Route_identity , genericNotificationInd c_Generic_notification_indicator, serviceActivation c_Service_activation, genericReference c_Generic_reference, mLPPprecedence c_MLPP_precedence, transMediumReqPrime c_Transmission_medium_requirement_prime, locationNum c_Location_number, forwardGVNS c_Forward_GVNS , distrDynRoutInd c_Distributed_dynamic_routing_indicators, addChargeInfo c_Additional_charging_information , addRoutInfo c_Additional_routing_information, correlationId c_Correlation_id, SCFId c_SCF_id , callTransferTreatmentInd c_Call_transfer_treatment_indicators, conferenceTreatmentInd c_Conference_treatment_indicators, callOfferingTreatmentInd c_Call_offering_treatment_indicators, callDiversionTreatmentInd c_Call_diversion_treatment_indicators, netwCallRef c_Network_call_reference, unknown c_Unknown_parameter } , endOfOp TSC_EOP } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { cic c_Cic_par (CICnr), messageType TSC_msgIAM, natureOfConnInd c_Nature_of_connection_indicators , forwardCallInd c_Forward_call_indicators , callingPartyCat c_Calling_partys_category , transmissionMediumReq c_Transmission_medium_requirement_speech , var_part_ptr '02'O, opt_part_ptr TSO_COMPUTE_OPT_PTR(), calledPartyNum c_Called_party_number_internat_odd (TSP_NB_B) , iamOptionals { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) IF_PRESENT , propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT }, endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call, REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio, REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) IF_PRESENT, propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_interworking (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_interworking,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C_NON_ISUP),
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_32octet_UserToUserInfo(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Receive 32 octets UUInf
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even_1 ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_even_A IF_PRESENT,
	userToUserInfo c_dss1_UUI32
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Access_transport_parameter (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	accessTransport c_Access_transport ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Access_transport_parameter_subaddress (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT ,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	accessTransport c_Access_transport_called_party_sub_address_AB,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration		
Constraint Name	: IAM_r_AB_After_redirection (CICnr: BIT_12)	
PDU Type	: IAM	
Derivation Path	: IAM_r.	
Encoding Rule Name	:	
Encoding Variation	:	
Comments	:	
Constraint Value		
REPLACE forwardCallInd	BY	c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY	c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY	{
IF_PRESENT,	callingPartyNum	c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum	c_Redirecting_number_national_send ,
	redirectionInfo	c_Redirection_information_parCNT (INT_TO_BIT(3,3)) ,
	originalCalledNum	c_Original_called_number_national_send ,
	propDelayCounter	c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo	c_Parameter_compatibility_information IF_PRESENT
		}
Detailed Comments :		

ASN.1 PDU Constraint Declaration		
Constraint Name	: IAM_r_AB_After_redirection_with_international_original_called_number (CICnr: BIT_12)	
PDU Type	: IAM	
Derivation Path	: IAM_r.	
Encoding Rule Name	:	
Encoding Variation	:	
Comments	:	
Constraint Value		
REPLACE forwardCallInd	BY	c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY	c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY	{
IF_PRESENT,	callingPartyNum	c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum	c_Redirecting_number_national_send ,
	redirectionInfo	c_Redirection_information_parCNT (INT_TO_BIT(3,3)),
	originalCalledNum	c_Original_called_number_international_send ,
	propDelayCounter	c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo	c_Parameter_compatibility_information IF_PRESENT
		}
Detailed Comments :		

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_After_redirection_with_international_original_called_number_with_prefix (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_international_foreign_CC_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(3,3)) ,
	originalCalledNum
c_Original_called_number_international_with_prefix_send ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_After_redirection_with_international_redirecting_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_international_own_CC_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(3,3)),
	originalCalledNum c_Original_called_number_national_send ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_After_redirection_with_national_original_called_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(3,3)),
	originalCalledNum c_Original_called_number_national_send ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_After_redirection_with_no_original_called_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(3,3)),
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_After_redirection_with_no_redirecting_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(3,3)),
	originalCalledNum c_Original_called_number_national_send ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_After_redirection_with_original_called_number_presentation_restricted (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT ,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(3,3)),
	originalCalledNum c_Original_called_number_presentation_restricted ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_CCBS (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	ccbsPar c_CCBS_parameter,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_COLP_in_optional_forward_call_indicator (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	optForwardCallInd c_Optional_forward_call_indicators_COLP_request ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Calling_party_number_no_address_signals (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_no_address_signals ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Calling_party_number_own_country_without_prefix (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum
c_Calling_party_number_even_own_country_without_prefix ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Generic_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { IF_PRESENT, genericNum c_Generic_number_national_user_provided_not_verified , propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Generic_number_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call, REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio, REPLACE calledPartyNum BY c_Called_party_number_internat_odd_1, REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_A_network_provided IF_PRESENT, accessTransport c_Access_transport, genericNum c_Generic_number_national_user_provided_not_verified IF_PRESENT, paramCompatibilityInfo c_PCI_for_PDC_and_generic_number IF_PRESENT }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_ISDN (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISDN	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_International_calling_party_number_without_prefix (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_International_calling_party_number_even_without_prefix_user_provided_passed, propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_International_generic_number_without_prefix (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_A_network_provided IF_PRESENT, genericNum c_Generic_number_user_provided_not_verified_international_without_prefix, propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_PCI_for_PDC_and_generic_number IF_PRESENT }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_National_generic_number_after_removing_own_CC (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	{
	callingPartyNum
c_Calling_party_number_even_A_with_own_country_code_network_provided IF_PRESENT,	
	genericNum c_National_generic_number_user_provided_not_verified ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_PCI_for_PDC_and_generic_number IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_OFCl_COLRqI (ClCnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	optForwardCallInd c_Optional_forward_call_indicators_COLRqI_1 ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_OptionalForwardCallInd_CUGCallInd_00_ISUPPref_10 (ClCnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to non-CUG call
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUPPref_10 ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_00 ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUPPref_10 ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) IF_PRESENT ,
	optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 ,
	cUGInterlockCode
c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_national ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_national (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUPPref_10 ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_number_internat_even (TSP_NB_B) IF_PRESENT ,
optForwardCallInd	c_Optional_forward_call_indicators_CUGCallInd_11 ,
cUGInterlockCode	
c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_national ,	
propDelayCounter	c_Propagation_delay_counter IF_PRESENT,
paramCompatibilityInfo	c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Prefix_and_address_ind_unknown (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_prefix_and_address_ind_unknown, propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call, REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio, REPLACE calledPartyNum BY c_Called_party_number_internat_odd_1, REPLACE iamOptionals BY { callingPartyNum c_Presentation_restricted_calling_party_number_even_nw_provided } }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Presentation_restricted_calling_party_number_even_nw_provided,
accessTransport	c_Access_transport
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted_calling_and_generic_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
callingPartyNum	
c_Presentation_restricted_calling_party_number_even_nw_provided ,	
genericNum	
c_Presentation_restricted_generic_number_user_provided_not_verified ,	
propDelayCounter	c_Propagation_delay_counter IF_PRESENT,
paramCompatibilityInfo	c_PCI_for_PDC_and_generic_number IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted_calling_and_generic_number_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Presentation_restricted_calling_party_number_even_nw_provided,
accessTransport	c_Access_transport,
genericNum	c_Presentation_restricted_generic_number_user_provided_not_verified,
paramCompatibilityInfo	c_PCI_for_PDC_and_generic_number IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted_calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
callingPartyNum	c_Presentation_restricted_calling_party_number_even ,
propDelayCounter	c_Propagation_delay_counter IF_PRESENT,
paramCompatibilityInfo	c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted_screening_up_verified_passed(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Presentation_restricted_calling_party_number_even
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Presentation_restricted_screening_up_verified_passed_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Presentation_restricted_calling_party_number_even,
accessTransport	c_Access_transport
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Screening_indicator_np_Presentation_allowed(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_numbec_dss1_even_screening_ind_np_presentation_allowed
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Screening_indicator_np_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_number_even_A_network_provided,
accessTransport	c_Access_transport
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Screening_indicator_up_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_number_even_screening_ind_up_verified_passed,
accessTransport	c_Access_transport
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_Screening_indicator_up_verified_passed(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_number_even_screening_ind_up_verified_passed
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_UUI_explicit_essential_request_and_UUInf_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT ,	
userToUserInfo	c_User_to_user_information ,
userToUserInd	
c_User_to_user_indicators_WithParameters('0'B,'11'B,'00'B,'00'B,'0'B),	
propDelayCounter	c_Propagation_delay_counter IF_PRESENT,
paramCompatibilityInfo	c_Parameter_compatibility_information IF_PRESENT
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_UUI_explicit_essential_request_service3_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInd
c_User_to_user_indicators_WithParameters('0'B,'00'B,'00'B,'11'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_UUI_explicit_non_essential_request_service2 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'10'B,'00'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInd
c_User_to_user_indicators_WithParameters('0'B,'00'B,'00'B,'10'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_UserToUserInfo (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInfo c_User_to_user_information ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_UserToUserInfo_UserToUserInd (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf and UUInd
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInfo c_User_to_user_information ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'10'B,'00'B,'00'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_diverted_number_subaddress (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER),
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national ,
	accessTransport c_Access_transport_called_party_sub_address_BC,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_no_redirecting_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)),
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirecting_number_international_with_prefix (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
IF_PRESENT ,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_international_with_prefix_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)),
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirecting_number_national (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)),
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_counter_incremented (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_FINAL_CALLED_NUMBER_NATIONAL) ,	
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(4,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_original_called_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER),
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Reducing_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT (2,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER),
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Reducing_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed_and_CUG_info (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_FINAL_CALLED_NUMBER) ,	
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	optForwardCallInd c_OFCI_with_CUG_with_og_access_not_allowed ,
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT (1,3)) ,
	cUGInterlockCode c_CUG_interlock_code,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed_and_calling_and_generic_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_FINAL_CALLED_NUMBER) ,	
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	genericNum c_Generic_number_national_user_provided_not_verified ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_PCI_for_generic_number IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed_and_propagation_delay (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter_param ('0001'O),
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_redirecting_number_FCI_ISUP_preferred (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_preferred ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_redirecting_number_FCI_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER) ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_and_redirecting_number_as_allowed (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER) ,
REPLACE iamOptionals	BY {
IF_PRESENT ,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_parCNT (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_with_CFB (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER) ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national ,
	redirectionInfo c_Redirection_information_with_CFB (INT_TO_BIT (1,3))
	,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_with_CFNr (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSC_CDIV_FINAL_CALLED_NUMBER),
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national ,
(1,3)) ,	redirectionInfo c_Redirection_information_with_CFNr (INT_TO_BIT
	,
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_With_redirection_info_with_CFU (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_FINAL_CALLED_NUMBER) ,	
REPLACE iamOptionals	BY {
IF_PRESENT ,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	redirectingNum c_Redirecting_number_national ,
(1,3)) ,	redirectionInfo c_Redirection_information_with_CFU (INT_TO_BIT
	originalCalledNum c_Original_called_number_national ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_ccbs_fci_isup_required_all_the_way (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_internat_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	ccbsPar c_CCBS_parameter ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_ccbs_fci_isup_required_all_the_way_USI_USIp_ATP_CdPN (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_internat_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_B) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	ccbsPar c_CCBS_parameter ,
	accessTransport c_Access_transport ,
	userServiceInfo c_User_service_information ,
	userServiceInfoPrime c_User_service_information_prime ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_ccbs_fci_isup_required_all_the_way_and_UUI (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_internat_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	ccbsPar c_CCBS_parameter ,
	userToUserInfo c_User_to_user_information ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'10'B,'00'B,'00'B,'0'B),	
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_no_Calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_AB_with_called_number (CICnr: BIT_12; Number:HEX_N)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd (TSP_NB_B) ,
REPLACE iamOptionals	BY {
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_COLP_in_optional_forward_call_indicator (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	optForwardCallInd c_Optional_forward_call_indicators_COLP_request ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_ISDN (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISDN,
REPLACE iamOptionals	BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_Presentation_restricted_calling_and_generic_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY { callingPartyNum c_Presentation_restricted_calling_party_number_even_nw_provided , genericNum c_Presentation_restricted_generic_number_user_provided_not_verified , propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_PCI_for_PDC_and_generic_number IF_PRESENT }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_UUI_explicit_essential_request_service2_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUP_required , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { IF_PRESENT, callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'00'B,'11'B,'00'B,'0'B), propDelayCounter c_Propagation_delay_counter IF_PRESENT, paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_UUI_explicit_essential_request_service3_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
('0'B, '00'B, '00'B, '11'B, '0'B) ,	userToUserInd c_User_to_user_indicators_WithParameters
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_UUI_explicit_non_essential_request_and_UUInf (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
('0'B, '10'B, '00'B, '00'B, '0'B) ,	userToUserInfo c_User_to_user_information,
	userToUserInd c_User_to_user_indicators_WithParameters
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_UUI_explicit_non_essential_request_service2 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'10'B,'00'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'00'B,'10'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_BA_UserToUserInfo (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInfo c_User_to_user_information,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT ,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_UA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_A)
IF_PRESENT,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_UB (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_UB_UUI_explicit_non_essential_request_service2 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
IF_PRESENT,	
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'10'B,'00'B,'0'B) ,	
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_r_UB_UserToUserInf (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_r.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
IF_PRESENT,	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	userToUserInfo c_User_to_user_information ,
	propDelayCounter c_Propagation_delay_counter IF_PRESENT,
	paramCompatibilityInfo c_Parameter_compatibility_information IF_PRESENT
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{	
cic	c_Cic_par (CICnr),
messageType	TSC_msglAM,
natureOfConnInd	c_Nature_of_connection_indicators,
forwardCallInd	c_Forward_call_indicators,
callingPartyCat	c_Calling_partys_category ,
transmissionMediumReq	c_Transmission_medium_requirement_speech,
var_part_ptr	'02'O,
opt_part_ptr	TSC_COMPUTE_OPT_PTR(),
calledPartyNum	c_Called_party_number_internat_even (TSP_NB_B),
iamOptionals {	
callingPartyNum	c_Calling_party_number_internat_even (TSP_NB_B)
}	, endOfOp TSC_EOP
}	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_isup_not_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_ISUPPreferenceInd_par ('01'B) ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C_NON_ISUP)
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_isup_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_ISUPPreferenceInd_par ('10'B) ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C_NON_ISUP)
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_isup_preferred (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_ISUPPreferenceInd_par ('00'B) ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C_NON_ISUP)
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Access_transport_parameter (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , accessTransport c_Access_transport }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_After_redirection (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , redirectingNum c_Redirecting_number_national_send , redirectionInfo c_Redirection_information_send (INT_TO_BIT (3,3)) , originalCalledNum c_Original_called_number_national_send }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_After_redirection_with_international_original_called_number_foreign_CC (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Reducing_number_international_foreign_CC_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (3,3)) ,
	originalCalledNum c_Original_called_number_international_foreign_CC_send
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_After_redirection_with_international_original_called_number_own_CC (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Reducing_number_national_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (3,3)) ,
	originalCalledNum c_Original_called_number_international_own_CC_send
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_After_redirection_with_national_original_called_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (3,3)) ,
	originalCalledNum c_Original_called_number_national_send
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_After_redirection_with_original_called_number_as_address_not_available (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (3,3)) ,
	originalCalledNum
c_Original_called_number_as_address_not_available_national_send	
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_After_redirection_with_redirecting_number_as_address_not_available (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum
c_Redirecting_number_as_address_not_available_national_send ,	
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (3,3)) ,
	originalCalledNum c_Original_called_number_national_send
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_CCBS (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	ccbsPar c_CCBS_parameter
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_COLP_in_optional_forward_call_indicator (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call, REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio, REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B), optForwardCallInd c_Optional_forward_call_indicators_COLP_request }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Called_party_number_with_diversion_facility (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSC_CDIV_ORIGINAL_CALLED_NUMBER) 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_CallingPartyNumber_national (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_national }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Calling_party_number_not_available (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_even_A_address_not_available
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Cdiv_FCI_ISUP_not_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_not_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_ORIGINAL_CALLED_NUMBER)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Cdiv_FCI_ISUP_preferred (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_preferred ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_ORIGINAL_CALLED_NUMBER)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Generic_number_but_no_calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	genericNum c_Generic_number_national_user_provided_not_verified ,
	paramCompatibilityInfo
c_Param_compatibility_info_transit_interpretation_discard_param	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_IC_address_not_available (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_International_calling_party_number_even_A_address_not_available }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_ISDN (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISDN	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Incomplete_calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call, REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio, REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_A_incomplete }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_International_generic_number_with_own_country_code_without_prefix (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_A_with_own_country_code_network_provided , genericNum c_Generic_number_with_own_country_code_user_provided_not_verified_international_without_prefix , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_National_calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call, REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio, REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_even_national_number }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_National_generic_number (CiCnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_even_A_network_provided ,
	genericNum c_National_generic_number_user_provided_not_verified ,
	paramCompatibilityInfo
c_Param_compatibility_info_transit_interpretation_discard_param	
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_OFCl_COLRql (CiCnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	optForwardCallInd c_Optional_forward_call_indicators_COLRql_1
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_OFCl_CUG_with_og_access_not_allowed (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to spare value
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSC_CDIV_ORIGINAL_CALLED_NUMBER) , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_OFCl_with_CUG_with_og_access_not_allowed , cUGInterlockCode c_CUG_interlock_code }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_OptionalForwardCallInd_CUGCallInd_10_ISUPPref_10 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to outgoing access allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_national }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_OptionalForwardCallInd_CUGCallInd_11 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_national } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_international (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , propDelayCounter c_Propagation_delay_counter , paramCompatibilityInfo c_Parameter_compatibility_information } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_PDC_delay (CICnr: BIT_12 ; delay: OCT_2)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , propDelayCounter c_Propagation_delay_counter_value(delay) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Presentation_restricted_calling_and_generic_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Presentation_restricted_calling_party_number_even_A_nw_provided , genericNum c_Presentation_restricted_generic_number_user_provided_not_verified , paramCompatibilityInfo c_Param_compatibility_info_transit_interpretation_discard_param }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_Presentation_restricted_calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Presentation_restricted_calling_party_number_even_A }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_UUI_explicit_essential_request_and_UUInf_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInfo c_User_to_user_information ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'11'B,'00'B,'00'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_UUI_explicit_essential_request_service2_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'11'B,'00'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_UUI_explicit_essential_request_service3_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'00'B,'11'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_UUI_explicit_non_essential_request_service2 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'10'B,'00'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'00'B,'10'B,'0'B)	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_UserToUserInfo (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInfo c_User_to_user_information
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_With_redirecting_number_international_with_foreign_CC (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Reducing_number_international_foreign_CC_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (1,3))
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_With_redirecting_number_international_with_own_CC (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Reducing_number_international_own_CC_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT (1,3))
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AB_with_own_country_code (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum
c_Calling_party_number_even_A_with_own_country_code_without_prefix	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU (CIChr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_Called_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A)
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_Called_party_number_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A),
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'00'B,'10'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_Called_party_number_and_ATP (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A),
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	accessTransport c_Access_transport
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_Called_party_number_with_diversion_facility (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A)
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_CallingPartyNumber_national (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A), -- inserted
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_even_national -- national CgPN A
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_Generic_number_A (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A), -- CdPN U
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , --
CgPN A (national kellenel)	
	genericNum c_Generic_number_national_user_provided_not_verified, --
GenNb A (national)	
	paramCompatibilityInfo c_PCI_for_generic_number -- uj
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_PDC (CICnr: BIT_12 ; delay: OCT_2)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	propDelayCounter c_Propagation_delay_counter_value(delay)
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_AU_ccbs_fci_isup_required_all_the_way (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_internat_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	ccbsPar c_CCBS_parameter,
	paramCompatibilityInfo c_Parameter_compatibility_information
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B)
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_Access_transport_parameter_non_ISUP (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C_NON_ISUP),
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	accessTransport c_Access_transport_called_party_sub_address_BA
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_Access_transport_parameter_subaddress (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	accessTransport c_Access_transport_called_party_sub_address_BA
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_COLP_in_optional_forward_call_indicator (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	optForwardCallInd c_Optional_forward_call_indicators_COLP_request
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_Called_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A)
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_Calling_number_access_transport(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY {
callingPartyNum	c_Calling_party_number_even_own_country_without_prefix,
accessTransport	c_Access_transport
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_ISDN (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISDN ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A) ,
REPLACE iamOptionals	BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_No_calling_number(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_odd_1,
REPLACE iamOptionals	BY { }
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_Non_isup_called_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A)
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_00_ISUPPref_10_IA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_00 , paramCompatibilityInfo c_Parameter_compatibility_information_CUG }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_00_ISUPPref_10_noIA(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_NOIA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_00 , paramCompatibilityInfo c_Parameter_compatibility_information_CUG }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUPPref_10_IA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUPPref_10_noIA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_NOIA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUPPref_10_nonCUG (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUPPref_10_otherCUG_IA(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_OTHERCUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUPPref_10_otherCUG_noIA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_OTHERCUG_NOIA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_SUPPref_10_noCUGinterlock_IA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_10 , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_IA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_noIA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_NOIA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_nonCUG(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_otherCUG_IA(CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_OTHERCUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPref_10_otherCUG_noIA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_OTHERCUG_NOIA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , optForwardCallInd c_Optional_forward_call_indicators_CUGCallInd_11 , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_Presentation_restricted_calling_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Presentation_restricted_calling_party_number_even_A } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UUI_explicit_essential_request_service2_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd REPLACE transmissionMediumReq REPLACE calledPartyNum REPLACE iamOptionals ('0'B,'00'B,'11'B,'00'B,'0'B)	BY c_Forward_call_indicators_national_call_ISUP_required , BY c_Transmission_medium_requirement_3_1khz_audio , BY c_Called_party_number_internat_even (TSP_NB_A) , BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , userToUserInd c_User_to_user_indicators_WithParameters }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UUI_explicit_essential_request_service3_and_ISUP_required (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A),
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'00'B,'11'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UUI_explicit_non_essential_request_and_UUInf (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInfo c_User_to_user_information ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'10'B,'00'B,'00'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UUI_explicit_non_essential_request_service2 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'10'B,'00'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UUI_explicit_non_essential_request_service3 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_A) ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	userToUserInd c_User_to_user_indicators_WithParameters
('0'B,'00'B,'00'B,'10'B,'0'B)	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UserToUserInfo (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A) , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf and UUInd
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , userToUserInfo c_User_to_user_information , userToUserInd c_User_to_user_indicators_WithParameters ('0'B,'10'B,'10'B,'10'B,'0'B) }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_With_redirection_info_redirection_counter2_OriCdNb_RgNb (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C) ,
REPLACE iamOptionals	BY {
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT(2,3)) ,
	originalCalledNum c_Original_called_number_national_send
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_With_redirection_info_redirection_counter_maximum (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (
TSC_CDIV_ORIGINAL_CALLED_NUMBER) ,	
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT(5,3)) ,
	originalCalledNum c_Original_called_number_national_send
	}
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_ccbs_fci_isup_required_all_the_way (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_internat_call_ISUP_required ,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio ,
REPLACE iamOptionals	BY {
	callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) ,
	ccbsPar c_CCBS_parameter,
	paramCompatibilityInfo c_Parameter_compatibility_information
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_diverted_call (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd	BY c_Forward_call_indicators_national_call,
REPLACE transmissionMediumReq	BY c_Transmission_medium_requirement_3_1khz_audio,
REPLACE calledPartyNum	BY c_Called_party_number_internat_even (TSP_NB_C) ,
REPLACE iamOptionals	BY {
	redirectingNum c_Redirecting_number_national_send ,
	redirectionInfo c_Redirection_information_send (INT_TO_BIT(1,3)) ,
	originalCalledNum c_Original_called_number_national_sendB
	}
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BA_noOptionalForwardCallInd_CUGCallInd_ISUPPref_10_CUGinterlock_IA (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	: CUG call indicator set to 11: outgoing access not allowed
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call_ISUPPref_10 , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A_SAMECUG_IA), REPLACE iamOptionals BY { callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) , cUGInterlockCode c_Closed_user_group_interlock_code_with_CUG_interlock_code_NtwkId_international , paramCompatibilityInfo c_Parameter_compatibility_information_CUG } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IAM_s_BU_Non_isup_called_party_number (CICnr: BIT_12)
PDU Type	: IAM
Derivation Path	: IAM_s.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE forwardCallInd BY c_Forward_call_indicators_national_call , REPLACE transmissionMediumReq BY c_Transmission_medium_requirement_3_1khz_audio , REPLACE calledPartyNum BY c_Called_party_number_internat_even (TSP_NB_A) 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IDR_MCID_r_request_indicators (CICnr:BIT_12)
PDU Type	: IDR
Derivation Path	: IDR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE idrOptionals BY { MCIDReqInd c_MCID_request_indicators_RI_HO } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IDR_MCID_s_request_indicators (CICnr: BIT_12)
PDU Type	: IDR
Derivation Path	: IDR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE idrOptionals BY { MCIDReqInd c_MCID_request_indicators_RI_HO }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IDR_m (CICnr: BIT_12)
PDU Type	: IDR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IDentification Request with mandatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msglRS } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IDR_o (CICnr: BIT_12)
PDU Type	: IDR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IDR with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msglRS, idrOptionals { MCIDReqInd c_MCID_request_indicators, messageCompatibilityInfo c_Message_compatibility_information , paramCompatibilityInfo c_Parameter_compatibility_information }, endOfOp TSC_EOP } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IDR_r_BA_MCID_request_indicators (CICnr: BIT_12)
PDU Type	: IDR
Derivation Path	: IDR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE idrOptionals BY { MCIDReqInd c_MCID_request_indicators_RI_HO , messageCompatibilityInfo c_MCI_for_IDR , paramCompatibilityInfo c_PCI_for_MCID_request_indicators }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IDR_s_BA_MCID_request_indicators (CICnr: BIT_12)
PDU Type	: IDR
Derivation Path	: IDR_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE idrOptionals BY { MCIDReqInd c_MCID_request_indicators_RI_HO , messageCompatibilityInfo c_MCI_for_IDR , paramCompatibilityInfo c_PCI_for_MCID_request_indicators }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: INF_m (CICnr: BIT_12)
PDU Type	: INF
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for INFormation message with mandatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msglINF , informationInd c_Information_indicators }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: INF_o(CICnr: BIT_12)
PDU Type	: INF
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for INF with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> { cic c_Cic_par (CICnr), messageType TSC_msglINF, informationInd c_Information_indicators , infOptionals { callingPartyCat c_Calling_partys_category_o , callingPartyNum c_Calling_party_number , accessTransport c_Access_transport , callReference c_Call_reference , connectionRequest c_Connection_request , paramCompatibilityInfo c_Parameter_compatibility_information , networkFacility c_Network_specific_facility , displayInfo c_Display_information } , endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: INR_m (CICnr: BIT_12)
PDU Type	: INR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for INformation Request with mandatatory parameters.
Constraint Value	
<pre> { cic c_Cic_par(CICnr) , messageType TSC_msglNR , informationRequestInd c_Information_request_indicators } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: INR_o (CICnr: BIT_12)
PDU Type	: INR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for INR with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> { cic c_Cic_par(CICnr) , messageType TSC_msglNR , informationRequestInd c_Information_request_indicators, inrOptionals { callReference c_Call_reference , paramCompatibilityInfo c_Parameter_compatibility_information, networkFacility c_Network_specific_facility }, endOfOp TSC_EOP } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_r_Calling_number_and_generic_number (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IRS with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre> REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators, callingPartyNum c_Calling_party_number_even_own_country_without_prefix, accessTransport c_Access_transport, genericNum c_Connected_number } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_r_Calling_number_and_subaddress (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IRS with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators, callingPartyNum c_Calling_party_number_even_own_country_without_prefix, accessTransport c_Access_transport }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_r_Calling_party_number_even_international (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators , callingPartyNum c_Calling_party_number_even_own_country_without_prefix }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_r_Calling_party_number_even_national (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators , callingPartyNum c_Calling_party_number_even_national_number }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_r_Calling_party_number_even_national_incomplete (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators , callingPartyNum c_Calling_party_number_even_national_incomplete }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_r_response_indicators (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators , callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_s_Calling_party_number_even_international_incomplete (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators , callingPartyNum c_Calling_party_number_even_international_incomplete }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_s_Included_no_CPN (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IRS without the expected MCID information.
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_MCID_s_response_indicators (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators_RI_HPI , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators , callingPartyNum c_Calling_party_number_internat_even (TSP_NB_B) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_m (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Identification ReSponse with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par (CICnr), messageType TSC_msglRS }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_o (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for IRS with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par (CICnr), messageType '00110111'B, irsOptionals { MCIDResplnd c_MCID_response_indicators , messageCompatibilityInfo c_Message_compatibility_information , paramCompatibilityInfo c_Parameter_compatibility_information , callingPartyNum c_Calling_party_number_even , accessTransport c_Access_transport , genericNum c_Generic_number } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_r_AB_No_MCID (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators , messageCompatibilityInfo c_MCI_for_IRS , paramCompatibilityInfo c_PCI_for_MCID_response_indicators }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: IRS_s_BA_No_MCID (CICnr: BIT_12)
PDU Type	: IRS
Derivation Path	: IRS_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE irsOptionals BY { MCIDResplnd c_MCID_response_indicators, messageCompatibilityInfo c_MCI_for_IRS, paramCompatibilityInfo c_PCI_for_MCID_response_indicators }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_m (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Loop Prevention Indicator with mandatory parameters.
Constraint Value	
{ cic c_Cic_par (CICnr), messageType TSC_msgLOP, opt_part_ptr '00'O }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_o (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ cic c_Cic_par (CICnr), messageType TSC_msgLOP, opt_part_ptr '01'O, lopOptionals { paramCompatibilityInfo c_Parameter_compatibility_information , callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_r_AB_Loop_prevention_request (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request.
Constraint Value	
<pre>REPLACE lopOptionals BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_r_BA_No_loop_indication (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_no_loop_exists }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_r_UA_Loop_prevention_request (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request. ok
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_r_UB_Insufficient_information (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- Is UB included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_insufficient_information }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_r_UB_Loop_prevention_request (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request. ok
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- is the UB included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_AB_Loop_prevention_request (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request.
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_AU_Insufficient_information (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- Is AU included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_insufficient_information }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_AU_Loop_prevention_request (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request.
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- how is AU included??? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_AU_No_loop_indication (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- Is AU included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_no_loop_exists }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_AU_Simultaneous_transfer_indication (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request.
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- how is AU included??? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_simultaneous_transfer }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_BA_No_loop_indication (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_no_loop_exists }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_BU_Insufficient_information (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: ok
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- Is BU included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_insufficient_information }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_BU_Loop_prevention_request (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request.
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- is the BU included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_indicators }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_BU_No_loop_indication (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: needs work!
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- Is BU included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_response_no_loop_exists }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_BU_No_loop_indication_with_altered_ctref (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: needs work!
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , callTransferReference c_Call_transfer_reference2, loopPreventionInd c_Loop_prevention_response_no_loop_exists }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: LOP_s_BU_Simultaneous_transfer_indication (CICnr: BIT_12)
PDU Type	: LOP
Derivation Path	: LOP_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for LOP with Loop prevention request.
Constraint Value	
REPLACE lopOptionals	BY { paramCompatibilityInfo c_PCI_for_call_transfer_reference , -- is the BU included? callTransferReference c_Call_transfer_reference , loopPreventionInd c_Loop_prevention_simultaneous_transfer }
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: NRM_m (CICnr: BIT_12)
PDU Type	: NRM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Network Resource Management with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgNRM }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: NRM_o (CICnr: BIT_12)
PDU Type	: NRM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for NRM with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr) , messageType TSC_msgNRM , nrmOptionals { messageCompatibilityInfo c_Message_compatibility_information, paramCompatibilityInfo c_Parameter_compatibility_information, echoControllnf c_Echo_control_information, transMediumUsed c_Transmission_medium_used } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: OPQ_m (CICnr: BIT_12)
PDU Type	: OPQ
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for OPerator Queue with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgOPQ }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: OPQ_o (CICnr: BIT_12)
PDU Type	: OPQ
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for OPQ with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgOPQ, opqOptionals { messageCompatibilityInfo c_Message_compatibility_information }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: OPR_m (CICnr: BIT_12)
PDU Type	: OPR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Operator message with mandataatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgOPR }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: OPR_o (CICnr: BIT_12)
PDU Type	: OPR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for OPR with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgOPR, oprOptionals { messageCompatibilityInfo c_Message_compatibility_information }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_anyvalue(CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Accepts RELease message with any optional parameters (for receiving only)
Constraint Value	
<pre>REPLACE causeInd BY c_Any_cause_Indicators, REPLACE relOptionals BY { redirectingInfo * 1 redirectionNum * 1 accessTransport * 1 sigPointCode * 1 userToUserInfo * 1 autCongLevel * 1 networkFacility * 1 accessDeliveryInfo * 1 paramCompatibilityInfo * 1 redirectionNumRest * 1 userToUserInd * 1 }, REPLACE endOfOp BY *</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_m (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for RELease message with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par (CICnr), messageType TSC_msgREL, var_part_ptr '02'O, opt_part_ptr '00'O, causeInd c_Cause_indicators }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_o (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for REL with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par (CICnr), messageType TSC_msgREL, var_part_ptr '02'O, opt_part_ptr TSO_COMPUTE_OPT_PTR(), causeInd c_Cause_indicators, relOptionals { redirectingInfo c_Redirection_information, redirectionNum c_Redirection_number, accessTransport c_Access_transport , sigPointCode c_Signalling_point_code, userToUserInfo c_User_to_user_information, autCongLevel c_Automatic_congestion_level, networkFacility c_Network_specific_facility, accessDeliveryInfo c_Access_delivery_information, paramCompatibilityInfo c_Parameter_compatibility_information, redirectionNumRest c_Redirection_number_restriction, userToUserInd c_User_to_user_indicators } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_102 (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_102	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_17 (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_17	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_18 (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_18	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_19 (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_19	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_21 (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_21	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_29_and_diagnostics_for_UUI (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RElease message, used for receiving only, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags ('0000'B , '0011101'B, '2A'O) -- location user, cause 29, diagnostics 2A	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Cause_69_and_diagnostics_for_UI (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message, used for receiving only, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags ('0000'B , '1000101'B, '2A'O) --- location user, cause 69, diagnostics 2A	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Default (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_default	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_AB_Diagnostic_CCBS (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags ('0100'B , '0010001'B, '01'O) --- location public network servind remote user, cause 17, diagnostics 01	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_BA_Cause17_CCBS_not_possible (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_17_CCBS_not_possible	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_BA_Cause17_CCBS_possible (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_17_CCBS_possible	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_BA_Cause34_CCBS_not_possible (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_34_CCBS_not_possible	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_BA_User_to_user_info (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: User to User Information
Constraint Value	
REPLACE relOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_BA_With_cause_user_busy_and_location_user (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_user_busy	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_CauseV_111 (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RElease message with mandataory parameters and cause value 29: facility rejected
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_Cause_value_111_protocol_error_unspecified	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_CauseV_29 (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message with mandatory parameters and cause value 29: facility rejected
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_Cause_value_29_facility_rejected	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_CauseV_55 (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message with mandatory parameters and cause value 29: facility rejected
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_Cause_value_55_incomming_calls_barred_within_CUG	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_CauseV_87 (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message with mandatory parameters and cause value 29: facility rejected
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_Cause_value_87_user_not_member_of_CUG	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_UA_Cause17_CCBS_possible (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_17_CCBS_possible	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_r_UA_Cause34_CCBS_possible (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_34_CCBS_possible	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_AB_Cause_29_and_diagnostics_for_UUI (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd BY c_Cause_indicator_with_diags ('0000'B , '0011101'B, '2A'O) -- location user, cause 29, diagnostics 2A	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_AB_Cause_69_and_diagnostics_for_UUI (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message, used for receiving only, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd	BY c_Cause_indicator_with_diags ('0000'B , '1000101'B, '2A'O) -- location user, cause 69, diagnostics 2A
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_AB_Diagnostic_CCBS (ClCnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	: RELease message, for checking the cause value and the parameter compatibility parameter
Constraint Value	
REPLACE causeInd	BY c_Cause_indicator_with_diags ('0100'B , '0010001'B, '01'O) -- location public network servind remote user, cause 17, diagnostics 01
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_BA_32octet_UserToUserInfo (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send 32 octets UUIInf
Constraint Value	
REPLACE relOptionals BY { userToUserInfo c_dss1_UUI32 }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_BA_Cause_17 (CICnr : BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_17	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_BA_UserToUserInfo (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf
Constraint Value	
REPLACE relOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_BA_User_to_user_info (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: User to User Information
Constraint Value	
REPLACE relOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_BA_With_cause_user_busy_and_location_user (CICnr:BIT_12)
PDU Type	: REL
Derivation Path	: REL_m.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE causeInd BY c_Cause_indicators_cause_user_busy	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: REL_s_BU_UserToUserInf (CICnr: BIT_12)
PDU Type	: REL
Derivation Path	: REL_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Send UUInf
Constraint Value	
REPLACE relOptionals BY { userToUserInfo c_User_to_user_information }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: RES_m (CICnr: BIT_12)
PDU Type	: RES
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for RESume with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgRES , SUSRESInd c_Suspend_resume_indicators, opt_part_ptr '00'O }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: RES_o (CICnr: BIT_12)
PDU Type	: RES
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for RES with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgRES, SUSRESInd c_Suspend_resume_indicators , opt_part_ptr '01'O, resOptionals { callReference c_Call_reference , paramCompatibilityInfo c_Parameter_compatibility_information } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: RES_user_initiated (CICnr: BIT_12)
PDU Type	: RES
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgRES, SUSRESInd c_Suspend_resume_indicators_user_init, opt_part_ptr '00'O }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: RLC_anyvalue (CICnr: BIT_12)
PDU Type	: RLC
Derivation Path	: RLC_o.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Accepts ReLease Complete message with any cause indicators (for receiving only)
Constraint Value	
REPLACE rlcOptionals BY {causeInd *}, REPLACE endOfOp BY *	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: RLC_m (CICnr: BIT_12)
PDU Type	: RLC
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ReReleaseComplete message
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgRLC, opt_part_ptr '00'O }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: RLC_o (CICnr: BIT_12)
PDU Type	: RLC
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for RLC with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgRLC, opt_part_ptr '01'O, rlcOptionals { causeInd c_Cause_indicators }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: RSC_m (CICnr: BIT_12)
PDU Type	: RSC
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for ReSetCircuit message
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgRSC }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SAM_m (CICnr: BIT_12)
PDU Type	: SAM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Subsequent Address Message with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par (CICnr) , messageType TSC_msgSAM , subsequentNum c_Subsequent_number_par ('123'H) }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SCB_m (CICnr: BIT_12)
PDU Type	: SCB
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Special Clear Back with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgSCB }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SCB_o (CICnr: BIT_12)
PDU Type	: SCB
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for SCB with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgSCB, scbOptionals { messageCompatibilityInfo c_Message_compatibility_information } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SGM_m (CICnr: BIT_12)
PDU Type	: SGM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for SeGMentation with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgSGM }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SGM_o (CICnr: BIT_12)
PDU Type	: SGM
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for SGM with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgSGM, sgmOptionals{ accessTransport c_Access_transport , userToUserInfo c_User_to_user_information , messageCompatibilityInfo c_Message_compatibility_information , genericDigits c_Generic_digits , genericNotificationInd c_Generic_notification_indicator , genericNum c_Generic_number }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SUS_m (CICnr: BIT_12)
PDU Type	: SUS
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for SUSpend with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgSUS , SUSRESInd c_Suspend_resume_indicators, opt_part_ptr '00'O }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SUS_o (CICnr: BIT_12)
PDU Type	: SUS
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for SUS with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgSUS, SUSRESInd c_Suspend_resume_indicators, opt_part_ptr '01'O, susOptionals { callReference c_Call_reference, paramCompatibilityInfo c_Parameter_compatibility_information }, endOfOp TSC_EOP }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: SUS_user_initiated (CICnr: BIT_12)
PDU Type	: SUS
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgSUS, SUSRESInd c_Suspend_resume_indicators_user_init, opt_part_ptr '00'O }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UBA_m (CICnr: BIT_12)
PDU Type	: UBA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for UnBlockingAcknowledgement message
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgUBA }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UBL_m (CICnr: BIT_12)
PDU Type	: UBL
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for UnBLocking message
Constraint Value	
{ cic c_Cic_par(CICnr) , messageType TSC_msgUBL }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UCIC_m (CICnr: BIT_12)
PDU Type	: UCIC
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for Unequipped Circuit Identification Code with mandatory parameters.
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgUCIC }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UPA_m (CICnr: BIT_12)
PDU Type	: UPA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgUPA }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UPA_o (CICnr: BIT_12)
PDU Type	: UPA
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ cic c_Cic_par(CICnr), messageType TSC_msgUPA, upaOptionals { paramCompatibilityInfo c_Parameter_compatibility_information }, endOfOp TSC_EOP }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UPT_m (CICnr: BIT_12)
PDU Type	: UPT
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgUPT }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: UPT_o (CICnr: BIT_12)
PDU Type	: UPT
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgUPT, upOptions { paramCompatibilityInfo c_Parameter_compatibility_information }, endOfOp TSC_EOP }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: USR_m (CICnr: BIT_12)
PDU Type	: USR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for User-to-uSer infoRmation with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgUSR, userToUserInfo c_User_to_user_information }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: USR_m_with_32_octet (CICnr: BIT_12)
PDU Type	: USR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for User-to-uSer infoRmation with mandatory parameters.
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgUSR, userToUserInfo c_dss1_UUI32 }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: USR_o (CICnr: BIT_12)
PDU Type	: USR
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Basic constraint for USR with all optional parameters defined in PDU type definition (may contain more paramaters than ISUP 4.2)
Constraint Value	
<pre>{ cic c_Cic_par(CICnr), messageType TSC_msgUSR, userToUserInfo c_User_to_user_information , usrOptionals { accessTransport c_Access_transport , paramCompatibilityInfo c_Parameter_compatibility_information } , endOfOp TSC_EOP }</pre>	
Detailed Comments	:

IV

Dynamic Part

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_1_Calling_party_number_network_provided Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : Calling party number (network provided) To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided" and the presentation restricted indicator set to "presentation allowed". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.2.1.1 ; Table 3.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_1_1_call_setup, B_ISUP_PTC:B_1_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_1_1_call_release, B_ISUP_PTC:B_1_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_1_1_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_1_1_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_1_1_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Screening_indicator_np_Presentation_allowed (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_1_1_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

```
access          IUT          SPB
-----setup-----> -----IAM----->
:

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call from the access without calling party number or invalid calling party number (not accepted by the network).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_2_Calling_party_number_network_provided_with_calling_subaddress Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : Calling party number (network provided) with calling sub-address <p>To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided" and an access transport parameter containing the calling sub-address.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.2.1.1 ; Table 3.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_1_2_call_setup, B_ISUP_PTC:B_1_2_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_1_2_call_release, B_ISUP_PTC:B_1_2_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_1_2_call_setup			
10		+DSS1_Preamble			
11		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1, TSV_CREF1))			1
12		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
14		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
15		A_1_2_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
18		B_1_2_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB_Screening_indicator_np_access_transport ("*B))			
		+B_SEND (ACM_m (TCV_B_cic))			
		+B_SEND (ANM_m (TCV_B_cic))			
		B_1_2_call_release			
		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed to the sub-addressing supplementary service.					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          IUT          SPB
-----setup-----> -----IAM----->
:
```

```

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding----
<-----alert-----<-----ACM-----
... ringing tone ...
<-----connect-----<-----ANM-----
-----disconnect----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->
```

1. Set up a call from the access without calling party number or wrong calling party number (not accepted by the network) and with a calling sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_3_Calling_party_number_user_provided_verified_and_passed Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : Calling party number (user provided, verified and passed) To verify that the IUT can successfully originate a call having the calling party number with the screening indicator set to "user provided, verified and passed".					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.2.1.1 ; Table 3.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_1_3_call_setup, B_ISUP_PTC:B_1_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_1_3_call_release, B_ISUP_PTC:B_1_3_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_1_3_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_valid_calling_party_number(TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_1_3_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1, TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1), TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_1_3_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Screening_indicator_up_verified_passed ("*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_1_3_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions <div style="text-align: center;"> access IUT SPB -----setup-----> -----IAM-----> </div>					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ... :</div> <div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div><---call_proceeding----</div><div><-----alert-----<-----ACM-----</div><div>... ringing tone ...</div><div><-----connect-----<-----ANM-----</div><div>-----disconnect-----> -----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div> <div><div></div><div>1. Set up a call from the access with a correct calling party number (within range).</div></div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_4_Calling_party_number_user_provided_verified_and_passed_with_calling_subaddress Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : Calling party number (user provided, verified and passed) with calling sub-address <p>To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "user provided, verified and passed" and an access transport parameter containing the calling sub-address.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.2.1.1 ; Table 3.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_1_4_call_setup, B_ISUP_PTC:B_1_4_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_1_4_call_release, B_ISUP_PTC:B_1_4_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_1_4_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND (setup_valid_calling_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_1_4_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1, TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1), TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_1_4_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Screening_indicator_up_access_transport ("*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_1_4_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed to the sub-addressing supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          IUT          SPB
-----setup-----> -----IAM----->
:

```

```

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding---
<-----alert-----<-----ACM-----
... ringing tone ...
<-----connect-----<-----ANM-----
-----disconnect----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->

```

1. Set up a call from the access with a correct calling party number (within range) and with a calling sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_5_Calling_party_number_user_provided_not_verified Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : Calling party number (user provided, not verified) To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided" and a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.2.1.1 ; Table 3.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_1_5_call_setup, B_ISUP_PTC:B_1_5_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_1_5_call_release, B_ISUP_PTC:B_1_5_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_1_5_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND (setup_valid_calling_party_number (TCV_flag_dss1, TSV_CREF1 , TSV_BCHNUM1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_1_5_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_1_5_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Generic_number ('*B'))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_1_5_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number.					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ...</div> <div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div>:</div></div> <div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div><---call_proceeding---</div><div><-----alert-----<-----ACM-----</div><div>... ringing tone ...</div><div><-----connect-----<-----ANM-----</div><div>-----disconnect-----> -----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div> <div><div>1. Set up a call from the access with a special calling party number.</div></div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_6_Calling_party_number_user_provided_not_verified_with_calling_subaddress Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : Calling party number (user provided, not verified) with calling sub-address To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided", a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified" and an access transport parameter containing the calling sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.2.1.1 ; Table 3.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_1_6_call_setup, B_ISUP_PTC:B_1_6_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_1_6_call_release, B_ISUP_PTC:B_1_6_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_1_6_call_setup			
10		+DSS1_Preamble			
11		+A_access_SEND (setup_valid_calling_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1))			1
12		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
14		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
15		A_1_6_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1, TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1), TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
18		B_1_6_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB_Generic_number_access_transport ('*B))			
20		+B_SEND (ACM_m (TCV_B_cic))			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		B_1_6_call_release			
23		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number and that the calling party has subscribed to the sub-addressing supplementary service.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
-----setup-----> -----IAM----->
:
```

```
access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding----
<-----alert-----<-----ACM-----
... ringing tone ...
<-----connect-----<-----ANM-----
-----disconnect-----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->
```

-
1. Set up a call from the access with a special calling party number and a calling sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_7_IUT_passes_generic_number_in_IAM Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that the calling party number and additional calling party number in the generic number can be successfully transferred to the succeeding exchange Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.4;3.5.2.2.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB_Generic_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_Generic_number ("*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM----->					
<hr/> 1. PTC will initiate a call setup with the expected parameters.					
Implementation: -----					
TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with generic number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication..... !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_8_IUT_discards_calling_party_number_in_IAM Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that the calling party number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set presentation allowed. Note: This bilateral agreement prohibits the transferral of the calling party number in any case. The test with address presentation restricted indicator set to "presentation restricted" is a CLIR test. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.3.1/ Q.731 PRE-TEST CONDITION : Arrange the data in the IUT so that the calling party number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_National_calling_party_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Calling_party_number_no_address_signals ("*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with no calling party number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----!					

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Test Case Dynamic Behaviour	
Detailed Comments :check communication.....
	!<-----REL-----!<-----REL-----!
	!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_9_IUT_discards_additional_calling_party_number_in_IAM Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that the additional calling party number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set presentation allowed. Note: This bilateral agreement prohibits the transferral of the calling party number in any case. The test with address presentation restricted indicator set to "presentation restricted" is a CLIR test. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.3.1/ Q.731 PRE-TEST CONDITION : Arrange the data in the IUT so that the additional calling party number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			
10		+A_SEND (IAM_s_AB_Generic_number (TCV_A_cic))			
11		+A_RECEIVE (ACM_m(TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		A_call_release			
14		+A_RECEIVE_CALL_REL			
15		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Calling_party_number_no_address_signals ('*B'))			
17		+B_SEND (ACM_m(TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with no additional calling party number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----!					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour	
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Test Case Name	: ISS_V_1_10_IUT_discards_calling_party_number_when_address_not_available
Group	: ISUP_Supplementary_Services/ISS_1_CLIP/
Purpose	: To verify that the calling party number is omitted, if the address presentation restricted indicator is set address not available
Configuration	: MTC_and_two_ISUP_PTCs
Default	:
Comments	: REFERENCE: 3.5.2.3.1/ Q.731

Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_call_setup			
9		+A_SEND (IAM_s_AB_Calling_party_number_not_available (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_no_Calling_party_number (*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			

Detailed Comments :

SPC	SPA	SPB
-----IAM----->	-----IAM----->	

1. PTC will initiate a call setup with the expected parameters.

Implementation:

```

-----
TTCN                IUT                TTCN
!-----IAM----->!-----IAM----->! (IAM with presentation restriction for
calling party number coded as address not
available)
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....

```

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_11_IUT_discards_additional_calling_party_number_if_no_calling_party_number					
Group : ISUP_Supplementary_Services/ISS_1_CLIP/					
Purpose : To verify that if the calling party number is not sent, then an additional calling party number in a generic number will be omitted.					
Configuration : MTC_and_two_ISUP_PTCs					
Default :					
Comments : REFERENCE: 3.5.2.3.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			Sets final verdict
2		CREATE (A_ISUP_PTC:A_call_setup,			
3		B_ISUP_PTC:B_call_setup)			
4		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
5		+check_communication			
6		CREATE (A_ISUP_PTC:A_call_release,			
7		B_ISUP_PTC:B_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			
11		A_call_setup			
12		+A_SEND (IAM_s_AB_Generic_number_but_no_calling_party_number (TCV_A_cic))			
13		+A_RECEIVE (ACM_m(TCV_A_cic))			
14		+A_RECEIVE (ANM_m (TCV_A_cic))			
15		A_call_release			
16		+A_RECEIVE_CALL_REL			
17		B_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_no_Calling_party_number ('**B))			
19		+B_SEND (ACM_m(TCV_B_cic))			
20		+B_SEND (ANM_m (TCV_B_cic))			
21		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM-----> (IAM with additional calling party number but no calling party) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication.....					

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Continued from previous page

Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour

Test Case Name : ISS_V_1_12_IUT_sets_calling_party_number_to_international

Group : ISUP_Supplementary_Services/ISS_1_CLIP/

Purpose	: To verify that the IUT can convert the calling party number into an international number, setting the nature of address indicator to "international Number" and can pass on the address presentation indicator and screening indicator transparently.
----------------	---

Configuration : MTC_and_two_ISUP_PTCs

Default :

Comments : REFERENCE: 3.5.2.3.1/ Q.731

Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_call_setup			
9		+A_SEND (IAM_s_AB_National_calling_party_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_International_calling_party_number_without_prefi x ('*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			

Detailed Comments :

SPC	SPA	SPB
----- AM----->	----- AM----->	

1. PTC will initiate a call setup with the expected parameters.

Implementation:

```

TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->! (IAM sets calling party number to
international number)
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

```

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div>.....check communication.....<div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div></div></div>

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.....check communication.....

```
!<-----REL-----!<-----REL-----!  
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_1_14_IUT_discards_incomplete_calling_party_number Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that the calling party number is discarded if it is received with the calling party number incomplete indicator set to "incomplete". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.3.2/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Incomplete_calling_party_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_no_Calling_party_number (**B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM----->					
<hr/> 1. PTC will initiate a call setup with the expected parameters.					
Implementation: -----					
TTCN IUT TTCN !-----IAM----->!-----IAM-----> (IAM with incomplete calling party number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication.....					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_15_IUT_removes_country_code_in_calling_party_number Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that the country code in the address signals of the calling party number is removed if it is the network's own country code. The nature of address indicator shall be set to "National Number". The address presentation restriction indicator shall be transferred transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_with_own_country_code (TCV_A_cic)) +A_RECEIVE (ACM_m(TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_National_calling_party_number ('*B')) +B_SEND (ACM_m(TCV_B_cic)) +B_SEND (ANM_m (TCV_B_cic))			
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with own country code in calling party number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div><div>!<-----REL-----!<-----REL-----!</div><div>!-----RLC----->!-----RLC----->!</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_16_IUT_removes_country_code_in_generic_number Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that the country code in the address signals of the generic number coded as an "additional party number", if the numbering plan indicator is "ISDN Telephony", is removed if it is the network's own country code. The nature of address indicator shall be set to "National Number". The address presentation restriction indicator shall be transferred transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_International_generic_number_with_own_country_code_without_prefix (TCV_A_cic)) +A_RECEIVE (ACM_m(TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_National_generic_number_after_removing_own_CC ("*B)) +B_SEND (ACM_m(TCV_B_cic)) +B_SEND (ANM_m (TCV_B_cic))			
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM----->					
<hr/> 1. PTC will initiate a call setup with the expected parameters.					
Implementation: -----					
TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with own country code in generic number) !<-----ACM-----!<-----ACM-----!ringing tone.....					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

!<-----ANM-----!<-----ANM-----!

.....check communication.....

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_1_17_IUT_adds_prefix_to_calling_party_number Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : To verify that a prefix is added to the calling party number. The nature of address indicator shall be set to "Unknown". Note: The coding "Unknown" is a national option. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_with_own_country_code (TCV_A_cic)) +A_RECEIVE (ACM_m(TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Prefix_and_address_ind_unknown ("**B)) +B_SEND (ACM_m(TCV_B_cic)) +B_SEND (ANM_m (TCV_B_cic))			
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with own country code in calling party number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name	ISS_I_1_18_IUT_sets_screening_indicator_to_network_provided				
Group	ISUP_Supplementary_Services/ISS_1_CLIP/				
Purpose	To verify that the screening indicator shall be set to "network provided" if the address presentation restricted indicator in the calling party number is set to "address not available" Note: The coding address not available is a national option.				
Configuration	MTC_and_two_ISUP_PTCs				
Default					
Comments	REFERENCE: 3.5.2.4.2/ Q.731				
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_IC_address_not_available (TCV_A_cic))			When IAM is recd on the incoming transit exchange with calling party number as address not available
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Screening_indicator_network_provided ("**B"))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments :					
SPC SPA SPB					
-----IAM-----> -----IAM----->					

1. PTC will initiate a call setup with the expected parameters.					
Implementation:					

TTCN IUT TTCN					
!-----IAM----->!-----IAM----->! (IAM with presentation restriction for					
calling party number coded as address not					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

available)

!<-----ACM-----!<-----ACM-----!

.....ringing tone.....

!<-----ANM-----!<-----ANM-----!

.....check communication.....

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_1_19_CLIP_interaction_with_call_diversions Group : ISUP_Supplementary_Services/ISS_1_CLIP/ Purpose : CLIP – interaction with call diversions <p>To verify that a call diverting exchange shall also forward the calling party number and the generic number containing the additional calling party number.</p> Configuration : MTC_and_two_ISUP_PTCs Default : Comments : ISUP 97 reference3.6.10.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_1_19_call_setup, B_ISUP_PTC:B_1_19_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_1_19_call_release, B_ISUP_PTC:B_1_19_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_1_19_call_setup +A_SEND (IAM_s_AB_Generic_number (TCV_A_cic))			1
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_1_19_call_release +A_RECEIVE_CALL_REL			
13		B_1_19_call_setup +B_RECEIVE_cic (IAM_r_AB_Generic_number ("*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_1_19_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called user has subscribed to CLIP and has activated a call diversion service (CFB, CFNR, CFU or CD). <pre> SPC IUT SPB -----IAM-----> -----IAM-----> : -----IAM-----> -----IAM-----> (IAM with COLP in optional fwd call indicator)) <-----ACM-----<-----ACM----- <-----ANM-----<-----ANM----- (ANM with connected number) <-----REL-----<-----REL----- -----RLC-----> -----RLC-----> </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ... <hr/>	
1. The PTC will initiate a call set up with the expected parameters.	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_1_Restricted_calling_party_number_network_provided Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Restricted calling party number (network provided) To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided" and the address presentation restricted indicator set to "presentation restricted". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_1_call_setup, B_ISUP_PTC:B_2_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_1_call_release, B_ISUP_PTC:B_2_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_2_1_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1, TSV_CREF1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_2_1_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_1_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Presentation_restricted ('*B'))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_2_1_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed CLIR. <div> <div>access</div> <div>IUT</div> <div>SPB</div> </div>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	-----setup-----> -----IAM----->
	:
	access IUT SPB
	-----setup-----> -----IAM----->
	<---call_proceeding---
	<-----alert-----<-----ACM-----
	... ringing tone ...
	<-----connect-----<-----ANM-----
	-----disconnect-----> -----REL----->
	<-----release-----<-----RLC-----
	-----release_complete-->
	1. Set up a call from the access without calling party number or wrong calling party number (not accepted by the network).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_2_Restricted_calling_party_number_network_provided_with_calling_subaddress Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Restricted calling party number (network provided) with calling sub-address To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided", the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_2_call_setup, B_ISUP_PTC:B_2_2_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_2_call_release, B_ISUP_PTC:B_2_2_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_2_2_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1, TSV_CREF1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_2_2_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_2_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_access_transport ("*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_2_2_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed to CLIR and SUB.					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          IUT          SPB
-----setup-----> -----IAM----->
:

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->

```

1. Set up a call from the access without calling party number or wrong calling party number (not accepted by the network) and with a calling sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_3_Restricted_calling_party_number_user_provided_verified_and_passed Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Restricted calling party number (user provided, verified and passed) To verify that the IUT can successfully originate a call having the calling party number with the screening indicator set to "user provided, verified and passed" and the address presentation restricted indicator set to "presentation restricted". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_3_call_setup, B_ISUP_PTC:B_2_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_3_call_release, B_ISUP_PTC:B_2_3_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_2_3_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_valid_calling_party_number(TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_2_3_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_3_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_screening_up_verified_passed ("B"))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_2_3_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed CLIR.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
-----setup-----> -----IAM----->
:

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding-----
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call from the access with a correct calling party number (within range).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_4_Restricted_calling_party_number_user_provided_verified_and_passed_with_calling_sub_address Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Restricted calling party number (user provided, verified and passed) with calling sub-address To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "user provided, verified and passed", the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_4_call_setup, B_ISUP_PTC:B_2_4_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_4_call_release, B_ISUP_PTC:B_2_4_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_2_4_call_setup			
10		+DSS1_Preamble			
11		+A_access_SEND (setup_valid_calling_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1,TSV_BCHNUM1))			1
12		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
14		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
15		A_2_4_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
18		B_2_4_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_screening_up_verified_passed_access_transport ("*B))			
20		+B_SEND (ACM_m (TCV_B_cic))			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		B_2_4_call_release			
23		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed to CLIR and SUB.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
-----setup-----> -----IAM----->
:
```

```
access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding----
<-----alert----- <-----ACM-----
                        ... ringing tone ...
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call from the access with a correct calling party number (within range) and with a calling sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_5_Restricted_calling_party_number_user_provided_not_verified Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Restricted calling party number (user provided, not verified) To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided" and a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified", both having the address presentation restricted indicator set to "presentation restricted". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_5_call_setup, B_ISUP_PTC:B_2_5_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_5_call_release, B_ISUP_PTC:B_2_5_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_2_5_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND (setup_valid_calling_party_number (TCV_flag_dss1, TSV_CREF1 , TSV_BCHNUM1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_2_5_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_5_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_calling_and_generic_number ('*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_2_5_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number and that the calling party has subscribed to CLIR.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
-----setup-----> -----IAM----->
:
```

```
access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding----
<-----alert----- <-----ACM-----
                        ... ringing tone ...
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call from the access with a special calling party number.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_6_Restricted_calling_party_number_user_provided_not_verified_with_calling_subaddress Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Restricted calling party number (user provided, not verified) with calling sub-address To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided", a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified", both having the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_6_call_setup, B_ISUP_PTC:B_2_6_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_6_call_release, B_ISUP_PTC:B_2_6_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_2_6_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND (setup_valid_calling_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1,TSV_BCHNUM1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_2_6_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_6_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_calling_and_generic_number_access_transport ("*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_2_6_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

regarding an additional calling party number and that the calling party has subscribed to CLIR and SUB.

```

access          IUT          SPB
-----setup-----> -----IAM----->
:
```

```

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding---
<-----alert-----<-----ACM-----
... ringing tone ...
<-----connect-----<-----ANM-----
-----disconnect-----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->
```

-
1. Set up a call from the access with a special calling party number and a calling sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_7_a_IUT_passes_address_presentation_restricted_indicator_in_calling_party_number Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : To verify that the address presentation restricted indicator in the calling party number and in the generic number are successfully transferred to the succeeding exchange Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 4.5.2.2.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Presentation_restricted_calling_party_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_calling_party_number ('*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM----->					
<hr/> 1. PTC will initiate a call setup with the expected parameters. 2. CgPN only. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with address presentation restricted) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_7_b_IUT_passes_address_presentation_restricted_indicator_in_generic_number Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : To verify that the address presentation restricted indicator in the calling party number and in the generic number are successfully transferred to the succeeding exchange Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 4.5.2.2.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Presentation_restricted_calling_and_generic_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Presentation_restricted_calling_and_generic_number ("B"))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM----->					
<hr/> 1. PTC will initiate a call setup with the expected parameters. 2. CgPN and add.CgPN in GenNb.					
Implementation: -----					
TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with address presentation restricted in calling party number and generic number) !<-----ACM-----!<-----ACM-----!ringing tone..... !<-----ANM-----!<-----ANM-----!					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_8_IUT_removes_calling_party_number_when_presentation_restricted Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : To verify that the calling party number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted" . Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.3.1; 4.5.2.3.2; 4.6.5 / Q.731 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the calling party number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Presentation_restricted_calling_party_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Calling_party_number_no_address_signals ('*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->! (IAM with calling party number) !-----IAM----->! (IAM without calling party number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_9_IUT_removes_generic_number_when_presentation_restricted Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : To verify that the additional calling party number in generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted" . Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 3.5.2.3.1; 4.5.2.3.2; 4.6.5 / Q.731 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the additional calling party number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Presentation_restricted_calling_and_generic_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_Calling_party_number_no_address_signals ('*B'))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->! (IAM with calling party number and generic number) !-----IAM----->! (IAM without calling party number and generic number) !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----!					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_10_Presentation_of_the_address_interaction_with_MCID Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Presentation of the address – interaction with MCID <p>To verify that the information conveyed in an incoming call (especially the calling party number and the additional calling party number in the generic number) is registered in the network regardless of whether the calling user has activated the CLIR service or not, if the called user has MCID activated.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.6.20 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_10_call_setup, B_ISUP_PTC:B_2_10_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		+check_MCID_recordings			
6		CREATE (A_ACCESS_PTC:A_2_10_call_release, B_ISUP_PTC:B_2_10_call_release)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+check_idle			
9		+postamble			Sets final verdict
		A_2_10_call_setup			
10		+A_access_RECEIVE_setup (TSV_CREF1)			
11		+A_access_SEND (alert_o_s(TCV_flag_dss1, TSV_CREF1))			
12		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
13		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_2_10_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_10_call_setup			
16		+B_SEND (IAM_s_BA_Presentation_restricted_calling_party_number (TCV_B_cic))		1	
17		+B_RECEIVE (ACM_m (TCV_B_cic))			
18		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_2_10_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called user has activated the MCID supplementary service on a permanent basis.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
<-----setup----- <-----IAM-----
:

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with CgPN and addCgPN in the GenNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_2_11_Presentation_of_the_address_called_party_has_override_category Group : ISUP_Supplementary_Services/ISS_2_CLIR/ Purpose : Presentation of the address – called party has override category <p>To verify that the calling party number and the additional calling party number in the generic number are passed to the access regardless of whether the calling user has activated the CLIR service or not if the called user has the override category.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.2.1 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_2_11_call_setup, B_ISUP_PTC:B_2_11_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_2_11_call_release, B_ISUP_PTC:B_2_11_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_2_11_call_setup			
9		+DSS1_Preamble			
10		+A_access_RECEIVE_setup_with_valid_cpn (TSV_CREF1)			
11		+A_access_SEND (alert_o_s(TCV_flag_dss1, TSV_CREF1))			
12		+A_access_SEND (connect_o_s(TCV_flag_dss1, TSV_CREF1))			
13		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_2_11_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_2_11_call_setup			
16		+B_SEND (IAM_r_BA_Presentation_restricted_calling_and_generic_number (TCV_B_cic))		1	
17		+B_RECEIVE (ACM_m (TCV_B_cic))			
18		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_2_11_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called user has the override category.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access      IUT      SPB
<-----setup----- <-----IAM-----
:

access      IUT      SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with CgPN and addCgPN in the GenNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_1_Initiate_COLP_request Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Initiate COLP request <p>To verify that the exchange can initiate successfully a call requesting the COLP service in the optional forward call indicators.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_1_call_setup, B_ISUP_PTC:B_3_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_1_call_release, B_ISUP_PTC:B_3_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_1_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1, TSV_CREF1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_3_1_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_1_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator("**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_3_1_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling party subscribes to COLP.					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ...</div> <div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div>:</div></div> <div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div><---call_proceeding---</div><div><-----alert----- <-----ACM-----</div><div>... ringing tone ...</div><div><-----connect----- <-----ANM-----</div><div>-----disconnect-----> -----REL-----></div><div><-----release----- <-----RLC-----</div><div>-----release_complete--></div></div> <div>1. Set up a call from the access with a COLP request.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_2_a_IUT_passes_COLP_indicator_in_optional_forward_call_indicator_and_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the IUT passes on transparently the information related to the COLP supplementary services, in the optional forward call indicators (forward direction) , and the connected number (backward number). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.2.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup,			
3		B_ISUP_PTC:B_call_setup)			
4		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
5		+check_communication			
6		CREATE (A_ISUP_PTC:A_call_release,			
7		B_ISUP_PTC:B_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			
11		A_call_setup			
12		+A_SEND			
13		(IAM_s_AB_COLP_in_optional_forward_call_indicator			
14		(TCV_A_cic))			
15		+A_RECEIVE (ACM_m (TCV_A_cic))			
16		+A_RECEIVE (ANM_r_BA_Connected_number			
17		(TCV_A_cic))			
18		A_call_release			
19		+A_RECEIVE_CALL_REL			
20		B_call_setup			
21		+B_RECEIVE_cic			
22		(IAM_r_AB_COLP_in_optional_forward_call_indicator (**B))			
23		+B_SEND (ACM_m(TCV_B_cic))			
24		+B_SEND (ANM_s_BA_Connected_number (
25		TCV_B_cic))			
26		B_call_release			
27		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator) !<-----ACM-----!<-----ACM-----!					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.....ringing tone.....
!<-----ANM-----!<-----ANM-----! (ANM with connected number)

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_2_b_IUT_passes_COLP_indicator_in_optional_forward_call_indicator_and_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the IUT passes on transparently the information related to the COLP supplementary services, in the optional forward call indicators (forward direction) , and the connected number (backward number). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.2.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup,			
3		B_ISUP_PTC:B_call_setup)			
4		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
5		+check_communication			
6		CREATE (A_ISUP_PTC:A_call_release,			
7		B_ISUP_PTC:B_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			
11		A_call_setup			
12		+A_RECEIVE_cic			
13		(IAM_r_BA_COLP_in_optional_forward_call_indicator ("*B))			
14		+A_SEND (ACM_m(TCV_A_cic))			
15		+A_SEND (ANM_s_AB_Connected_number			
16		(TCV_A_cic))			
17		A_call_release			
18		+A_RECEIVE_CALL_REL			
19		B_call_setup			
20		+B_SEND			
21		(IAM_s_BA_COLP_in_optional_forward_call_indicator			
22		(TCV_B_cic))			
23		+B_RECEIVE (ACM_m(TCV_B_cic))			
24		+B_RECEIVE (ANM_r_AB_Connected_number (
25		TCV_B_cic))			
26		B_call_release			
27		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----> <-----IAM-----> -----ACM-----> -----ACM----->ringing tone..... -----ANM-----> -----ANM-----> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !<-----IAM-----!<-----IAM-----! (IAM with COLP in optional fwd call indicator) !-----ACM----->!-----ACM----->!					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.....ringing tone.....
!-----ANM----->!-----ANM----->! (ANM with connected number)

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_2_c_IUT_passes_COLP_indicator_in_optional_forward_call_indicator_and_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the IUT passes on transparently the information related to the COLP supplementary services, in the optional forward call indicators (forward direction) , and the connected number (backward number). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.2.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA_COLP_in_optional_forward_call_indicator (*B))			
10		+A_SEND (CON_s_AB_Connected_number (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			
13		+B_RECEIVE (CON_r_AB_Connected_number (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----<-----IAM----- -----CON-----> -----CON-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. Implementation: ----- TTCN IUT TTCN !<-----IAM-----!<-----IAM-----! (IAM with COLP in optional fwd call indicator) !-----CON----->!-----CON----->! (CON with connected number) check communication..... !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_3_a_IUT_removes_country_code_in_COL Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the country code in the address signals of the connected number is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number", the address presentation restriction indicator and the screening indicator shall be transferred transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.3.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic)) +A_RECEIVE (ACM_m(TCV_A_cic)) +A_RECEIVE (ANM_r_BA_National_connected_number (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator (**B)) +B_SEND (ACM_m(TCV_B_cic)) +B_SEND (ANM_s_BA_Connected_number_with_own_country_code (TCV_B_cic))			
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- </pre> <hr/> 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb to be passed on having AdSg:TSP_Nb_B with own country code. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator)					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

!<-----ACM-----!<-----ACM-----!

.....ringing tone.....

!<-----ANM-----! (ANM with connected number with own
country code)

!<-----ANM-----! (ANM with connected number wiht nature of address ind. "national")

.....check communication.....

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_3_b_IUT_removes_country_code_in_COL Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the country code in the address signals of the connected number is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant number)", the address presentation restriction indicator and the screening indicator shall be transferred transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.3.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_r_BA_National_connected_number (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B"))			
13		+B_SEND (CON_s_BA_Connected_number_with_own_country_code (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb to be passed on having AdSg:TSP_Nb_B with own country code. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM-----> (IAM with COLP in optional fwd call indicator) !<-----CON-----! (CON with connected number with own country code) !<-----CON-----! (CON with connected number wiht nature of address ind. "national")					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div>.....check communication..... !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_4_a_IUT_removes_country_code_in_COL_in_generic_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the country code in the address signals of the generic number coded as an "additional connected number", if the numbering plan indicator is "ISDN Telephony", is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant number)", the address presentation restriction indicator and the screening indicator shall be transferred transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.3.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic)) +A_RECEIVE (ACM_m(TCV_A_cic)) +A_RECEIVE (ANM_r_BA_National_connected_and_generic_number (TCV_A_cic)) A_call_release +A_RECEIVE_CALL_REL			
10					
11					
12					
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator (**B)) +B_SEND (ACM_m(TCV_B_cic)) +B_SEND (ANM_s_BA_Connected_and_generic_number_with_own _country_code (TCV_B_cic)) B_call_release +B_SEND_CALL_REL			
14					
15					
16					
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb:TSP_Nb_B_default and addConNb in GenNb:Tsp_GenNb_B to be passed on , both international numbers with the network's own country code. Implementation: -----					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call
indicator )
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----! (ANM with connected and generic number
with own country          code)
!<-----ANM-----! (ANM with connected and generic number with nature of address ind.
"national")

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_4_b_IUT_removes_country_code_in_COL_in_generic_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the country code in the address signals of the generic number coded as an "additional connected number", if the numbering plan indicator is "ISDN Telephony", is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant number)", the address presentation restriction indicator and the screening indicator shall be transferred transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.3.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_r_BA_National_connected_and_generic_number (TCV_A_cic))			
11		A_call_release +A_SEND_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B"))			
13		+B_SEND (CON_s_BA_Connected_and_generic_number_with_own_c ountry_code (TCV_B_cic))			
14		B_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- <hr/> 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb:Tsp_Nb_B_default and addConNb in GenNb:Tsp_GenNb_B to be passed on, both international numbers, with the network's own country code. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator)					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

!<-----CON-----! (CON with connected and generic number
with own country code)

!<-----CON-----! (CON with connected and generic number with nature of address ind.
"national")

.....check communication.....

!-----REL----->!-----REL----->!

!<-----RLC-----!<-----RLC-----!

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_3_5_a_IUT_adds_prefix_to_the_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that a prefix is added to the connected number and the nature of address indicator is set to "unknown". Note: The coding "unknown" is a national option (@). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.3.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_r_BA_Connected_number_with_prefix (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator (**B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_s_BA_Connected_number_with_own_country_cod e (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- : </pre> <hr/> Implementation: <pre> SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
check communication.....
<-----REL-----	<-----REL-----
-----RLC----->	-----RLC----->
1. The PTC will initiate a call set up with the expected parameters.	
2. Provide an international ConNb with a different country code than the incoming network (foreign CC).	

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_3_5_b_IUT_adds_prefix_to_the_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that a prefix is added to the connected number, and the nature of address indicator is set to "unknown". NOTE: The coding "unknown" is a national option. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.3.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_r_BA_Connected_number_with_prefix (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ('*B'))			
13		+B_SEND (CON_s_BA_Connected_number_with_foreign_country_code (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide an international ConNb with a different country code than the incoming network (foreign CC). Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator) !<-----CON-----! (CON with connected number with foreign code) country !<-----CON-----! (CON with prefixed connected number with nature of address ind.					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ... "unknown") check communication..... !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_6_a_IUT_discards_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the connected number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed". NOTE: This bilateral agreement prohibits the transferral of the connected number in any case. The test with the address presentation restricted indicator set to "presentation restricted" is a COLR test. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the connected number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_s_BA_National_connected_number_user_provided _passed (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb to be discarded. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

indicator)

!<-----ACM-----!<-----ACM-----!

.....ringing tone.....

!<-----ANM-----!<-----ANM-----! (ANM with no connected number)

.....check communication.....

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_6_b_IUT_discards_connected_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the connected number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed". NOTE: This bilateral agreement prohibits the transferral of the connected number in any case. The test with the address presentation restricted indicator set to "presentation restricted" is a COLR test. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the connected number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_m (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ('*B'))			
13		+B_SEND (CON_s_BA_National_connected_number_user_provided_p assed (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb to be discarded. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator) !<-----CON-----!<-----CON-----! (CON with no connected number)					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.....check communication.....

```
!<-----REL-----!<-----REL-----!  
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_7_a_IUT_discards_additional_connected_number_in_generic_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to " presentation allowed". NOTE: This bilateral agreement prohibits the transferral of the additional connected number in the generic number in any case. The test with the address presentation restricted indicator set to "presentation restricted " is a COLR test. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the additional connected number in the generic number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_r_BA_National_connected_number_Network_provi ded (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ('*B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_s_BA_National_connected_and_generic_number (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb and addConNb in the GenNb to be discarded.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Implementation:

TTCN

IUT

TTCN

!-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call
indicator)

!<-----ACM-----!<-----ACM-----!

.....ringing tone.....

!<-----ANM-----! (ANM with national connected and generic
number)

!<-----ANM-----! (ANM with no connected party number)

.....check communication.....

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_7_b_IUT_discards_additional_connected_number_in_generic_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to " presentation allowed". NOTE: This bilateral agreement prohibits the transferral of the additional connected number in the generic number in any case. The test with the address presentation restricted indicator set to "presentation restricted " is a COLR test. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the additional connected number in the generic number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_r_BA_National_connected_number_Network_provid ed (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ('*B'))			
13		+B_SEND (CON_s_BA_National_connected_and_generic_number (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- (no connected party number) <hr/> 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb and addConNb in the GenNb to be discarded. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call)					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

indicator)

!<-----CON-----! (CON with national connected and generic
number)

!<-----CON-----! (CON with no connected party number)

.....check communication.....

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_8_a_IUT_sets_address_presentation_restricted_indicator_to_address_not_available Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that for a connected number which is not to be released to the originating network, the setting of the address presentation restricted indicator can be changed from "presentation allowed" to "address not available" and that the address signals are reset. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic)) +A_RECEIVE (ACM_m (TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B")) +B_SEND (ACM_m (TCV_B_cic)) +B_SEND (ANM_s_BA_National_connected_number (TCV_B_cic))			
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb to be reset ('address not available'). Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator) !<-----ACM-----!<-----ACM-----! ringing tone.....					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

!<-----ANM-----! (ANM with national connected number)
!<-----ANM-----! (ANM with address presentation restricted indicator set to "address
not available")

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_8_b_IUT_sets_address_presentation_restricted_indicator_to_address_not_available Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that for a connected number which is not to be released to the originating network, the setting of the address presentation restricted indicator can be changed from "presentation allowed" to "address not available" and that the address signals are reset. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_m (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ('*B'))			
13		+B_SEND (CON_s_BA_National_connected_number (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide ConNb to be reset ('address not available'). Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM-----> (IAM with COLP in optional fwd call indicator) !<-----CON-----! (CON with national connected number) !<-----CON-----! (CON with address presentation restricted indicator set to "address not available") check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_9_a_IUT_sets_connected_number_to_international_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the exchange can convert the connected number into an international number, setting the nature of address indicator to "international number", and can pass on the address presentation restricted indicator and the screening indicator transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic)) +A_RECEIVE (ACM_m(TCV_A_cic)) +A_RECEIVE (ANM_r_BA_International_connected_number (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator (**B)) +B_SEND (ACM_m(TCV_B_cic)) +B_SEND (ANM_s_BA_National_connected_number (TCV_B_cic))			
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----ringing tone..... <-----ANM----- <-----ANM----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide national (significant) ConNb. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator) !<-----ACM-----!<-----ACM-----!					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.....ringing tone.....
!<-----ANM-----! (ANM with national connected number)
!<-----ANM-----! (ANM with connected number as "international number")

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_9_b_IUT_sets_connected_number_to_international_number Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that the exchange can convert the connected number into an international number, setting the nature of address indicator to "international number", and can pass on the address presentation restricted indicator and the screening indicator transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.4.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_COLP_in_optional_forward_call_indicator (TCV_A_cic))			
10		+A_RECEIVE (CON_r_BA_International_connected_number (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup +B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B"))			
13		+B_SEND (CON_s_BA_National_connected_number (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- 1. PTC will initiate a call setup with the expected parameters. 2. Provide national (significant) ConNb. Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! (IAM with COLP in optional fwd call indicator) !<-----CON-----! (CON with national connected number) !<-----CON-----! (CON with connected number as "international number") check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_3_10_a_Handling_unrequested_COL Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Handling unrequested COL <p>To verify that the call can be successfully set up if the IUT receives an unsolicited COL.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_10_a_call_setup, B_ISUP_PTC:B_3_10_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_10_a_call_release, B_ISUP_PTC:B_3_10_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_10_a_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1, TSV_CREF1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))		2, 3	
		A_3_10_a_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_10_a_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_Screening_indicator_np_Presentation_allowed (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_s_BA_Connected_number_with_own_country_code (TCV_B_cic))			
		B_3_10_a_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)
access IUT SPB
-----setup-----> -----IAM----->
<-----alert----- <-----ACM-----
 ... ringing tone ...
<-----connect----- <-----ANM-----
:

access IUT SPB
-----setup-----> -----IAM----->
<---call_proceeding---
<-----alert----- <-----ACM-----
 ... ringing tone ...
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->

-
1. Set up a call from the access without a COLP request.
 2. No COL request is issued.
 3. Verdict is pass if the call is correctly set up.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_3_10_b_Handling_unrequested_COL Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Handling unrequested COL <p>To verify that the call can be successfully set up if the IUT receives an unsolicited COL.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_10_b_call_setup, B_ISUP_PTC:B_3_10_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_10_b_call_release, B_ISUP_PTC:B_3_10_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_10_b_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF 1))			1
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			2, 3
		A_3_10_b_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_ CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_10_b_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB_Screening_indicator_np_Presentation_allowed (**B))			
16		+B_SEND (CON_s_BA_Connected_number_with_own_country_code (TCV_B_cic))			
		B_3_10_b_call_release			
17		+B_RECEIVE_CALL_REL			
Detailed Comments : <p>Pre-test conditions</p> <p>Case b)</p>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
-----setup-----> -----IAM----->
<-----connect----- <-----CON-----
:
```

```
access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding----
<-----connect----- <-----CON-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call from the access without a COLP request.
 2. No COL request is issued.
 3. Verdict is pass if the call is correctly set up.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_3_10_c_IUT_receives_an_unsolicited_COL Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that a call can be successfully setup if the IUT receives an unsolicited COL. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.5.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA (**B))			
10		+A_SEND (ACM_m (TCV_A_cic))			
11		+A_SEND (ANM_s_AB_National_connected_number (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_SEND (IAM_s_BA (TCV_B_cic))			
14		+B_RECEIVE (ACM_m(TCV_B_cic))			
15		+B_RECEIVE (ANM_r_AB_National_connected_number (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----> <-----IAM-----> -----ACM-----> -----ACM----->ringing tone..... -----ANM-----> -----ANM-----> 1. PTC will initiate a call setup with the expected parameters. 2. No COL request is received. 3. Verdict is 'pass' if the call setup continues. Implementation: ----- TTCN IUT TTCN !<-----IAM-----!<-----IAM-----! (IAM without COLP in optional fwd call indicator) !-----ACM----->!-----ACM-----> ringing tone..... !-----ANM----->!-----ANM-----> (ANM with connected number) check communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>!<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_3_10_d_IUT_receives_an_unsolicited_COL Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : To verify that a call can be successfully setup if the IUT receives an unsolicited COL. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 5.5.2.5.1/ Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA (**B))			
10		+A_SEND (CON_s_AB_National_connected_number (TCV_A_cic))			
		A_call_release			
11		+A_RECEIVE_CALL_REL			
		B_call_setup			
12		+B_SEND (IAM_s_BA (TCV_B_cic))			
13		+B_RECEIVE (CON_r_AB_National_connected_number (TCV_B_cic))			
		B_call_release			
14		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----<-----IAM----- -----CON-----> -----CON-----> <hr/> 1. PTC will initiate a call setup with the expected parameters. 2. No COL request is received. 3. Verdict is 'pass' if the call setup continues. Implementation: ----- TTCN IUT TTCN !<-----IAM-----!<-----IAM-----! (IAM without COLP in optional fwd call indicator) !-----CON----->!-----CON-----> (CON with connected number) check communication..... !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_11_a_Connected_number_user_provided_verified_and_passed					
Group : ISUP_Supplementary_Services/ISS_3_COLP/					
Purpose : Connected number (user provided, verified and passed)					
To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed", if the user provided COL is valid.					
Configuration : MTC_and_ISUP_and_access_PTCs					
Default :					
Comments : ISUP 97 reference5.5.2.5.1 i) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			Sets final verdict
2		CREATE (A_ACCESS_PTC:A_3_11_a_call_setup, B_ISUP_PTC:B_3_11_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_11_a_call_release, B_ISUP_PTC:B_3_11_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_3_11_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1, TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number(TCV_flag_dss1, TSV_CREF1,c_dss1_CODN1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_11_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_11_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))		1	
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_up_verified_passed (TCV_B_cic))			
		B_3_11_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
          ... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
          ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides valid COL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_11_b_Connected_number_user_provided_verified_and_passed Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, verified and passed) To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed", if the user provided COL is valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 i) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_11_b_call_setup, B_ISUP_PTC:B_3_11_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_11_b_call_release, B_ISUP_PTC:B_3_11_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_11_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_11_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_11_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_up_verified_passed (TCV_B_cic))			
		B_3_11_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Case b) access IUT SPB					

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Test Case Dynamic Behaviour	
<div>Detailed Comments : ...</div> <div><div><-----setup-----<-----IAM-----</div><div>-----connect----->-----CON-----></div><div>:</div></div> <div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>-----connect----->-----CON-----></div><div><---connect_ack-----</div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div> <div><div></div><div>1. Set up a call to the access with a COLP request, access provides valid COL.</div></div>	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_12_a_Connected_number_user_provided_verified_and_passed_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, verified and passed) with connected sub-address To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed", if the user provided COL is valid and an access transport parameter containing the connected sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 i) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_12_a_call_setup, B_ISUP_PTC:B_3_12_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_12_a_call_release, B_ISUP_PTC:B_3_12_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_12_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN1,c_dss1_CODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_12_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_12_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_up_verified_passed_sub address (TCV_B_cic))			
		B_3_12_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to SUB.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with a COLP request, access provides valid COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_12_b_Connected_number_user_provided_verified_and_passed_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, verified and passed) with connected sub-address To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed", if the user provided COL is valid and an access transport parameter containing the connected sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 i) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_12_b_call_setup, B_ISUP_PTC:B_3_12_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_12_b_call_release, B_ISUP_PTC:B_3_12_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_3_12_b_call_setup			
10		+A_access_RECEIVE_setup (TSV_CREF1)			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1,c_dss1_CODN1,c_dss1_CODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
13		A_3_12_b_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1,16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
16		B_3_12_b_call_setup			
17		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
18		+B_RECEIVE (CON_r_AB_Connected_number_up_verified_passed_subaddress (TCV_B_cic))			
19		B_3_12_b_call_release			
20		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to SUB.					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
<div>Case b)</div> <div>access IUT SPB</div> <div><-----setup-----<-----IAM-----</div> <div>-----connect-----> -----CON-----></div> <div>:</div> <div> </div> <div>access IUT SPB</div> <div><-----setup-----<-----IAM-----</div> <div>-----connect-----> -----CON-----></div> <div><---connect_ack-----</div> <div>-----disconnect-----> -----REL-----></div> <div><-----release-----<-----RLC-----</div> <div>-----release_complete--></div> <div> </div> <div>1. Set up a call to the access with a COLP request, access provides valid COL with sub-address.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_13_a_Connected_number_network_provided Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (network provided) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", if the user provided COL is not valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 ii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_13_a_call_setup, B_ISUP_PTC:B_3_13_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_13_a_call_release, B_ISUP_PTC:B_3_13_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_13_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN2))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_13_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_13_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1, 2
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np (TCV_B_cic))			
		B_3_13_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Case a)					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with a COLP request, access provides invalid COL.
 2. Scrl set to "network provided" is implicit.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_13_b_Connected_number_network_provided Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (network provided) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", if the user provided COL is not valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 ii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_13_b_call_setup, B_ISUP_PTC:B_3_13_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_13_b_call_release, B_ISUP_PTC:B_3_13_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_13_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN2))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_13_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_13_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np (TCV_B_cic))			2
		B_3_13_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Case b) access IUT SPB <-----setup----- <-----IAM-----					

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Continued from previous page

Test Case Dynamic Behaviour	
Detailed Comments : ...	
	-----connect-----> -----CON-----> :
	access IUT SPB
	<-----setup-----<-----IAM-----
	-----connect-----> -----CON----->
	<---connect_ack-----
	-----disconnect-----> -----REL----->
	<-----release-----<-----RLC-----
	-----release_complete-->
	1. Set up a call to the access with a COLP request, access provides invalid COL.
	2. Scrl set to "network provided" is implicit.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_14_a_Connected_number_network_provided_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (network provided) with connected sub-address <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", if the user provided COL is not valid and an access transport parameter containing the connected sub-address.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 ii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_14_a_call_setup, B_ISUP_PTC:B_3_14_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_14_a_call_release, B_ISUP_PTC:B_3_14_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_14_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s (TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1,c_dss1_CODN2,c_dss1_C ODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_14_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_ CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_14_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))		1	
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_subaddress (TCV_B_cic))			
		B_3_14_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to SUB.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides invalid COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_14_b_Connected_number_network_provided_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (network provided) with connected sub-address <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", if the user provided COL is not valid and an access transport parameter containing the connected sub-address.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 ii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_14_b_call_setup, B_ISUP_PTC:B_3_14_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_14_b_call_release, B_ISUP_PTC:B_3_14_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_14_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN2,c_dss1_CODS1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_14_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_14_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np_subaddress (TCV_B_cic))			
		B_3_14_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to SUB.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)
access IUT SPB
<-----setup-----<-----IAM-----
-----connect-----> -----CON----->
:

access IUT SPB
<-----setup-----<-----IAM-----
-----connect-----> -----CON----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->

-
1. Set up a call to the access with a COLP request, access provides valid COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_15_a_Connected_number_user_provided_not_verified Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, not verified) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and a generic number containing the additional connected number with the screening indicator set to "user provided, not verified". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 iii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_15_a_call_setup, B_ISUP_PTC:B_3_15_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_15_a_call_release, B_ISUP_PTC:B_3_15_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_15_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_15_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1, release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_15_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_generic_number (TCV_B_cic))			
		B_3_15_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional connected number.					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
<div>Case a)</div> <div>accessIUTSPB</div> <div><-----setup-----<-----IAM-----</div> <div>-----alert----->-----ACM-----></div> <div>... ringing tone ...</div> <div>-----connect----->-----ANM-----></div> <div>:</div> <div>accessIUTSPB</div> <div><-----setup-----<-----IAM-----</div> <div>-----alert----->-----ACM-----></div> <div>... ringing tone ...</div> <div>-----connect----->-----ANM-----></div> <div><---connect_ack-----</div> <div>-----disconnect----->-----REL-----></div> <div><-----release-----<-----RLC-----</div> <div>-----release_complete--></div> <div>1. Set up a call to the access with a COLP request, access provides special COL.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_15_b_Connected_number_user_provided_not_verified Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, not verified) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and a generic number containing the additional connected number with the screening indicator set to "user provided, not verified". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 iii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_15_b_call_setup, B_ISUP_PTC:B_3_15_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_15_b_call_release, B_ISUP_PTC:B_3_15_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_15_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_15_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_15_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np_generic_number (TCV_B_cic))			
		B_3_15_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional connected number.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)

access

IUT

SPB

<-----setup-----<-----IAM-----

-----connect----->-----CON----->

:

access

IUT

SPB

<-----setup-----<-----IAM-----

-----connect----->-----CON----->

<---connect_ack-----

-----disconnect----->-----REL----->

<-----release-----<-----RLC-----

-----release_complete-->

-
1. Set up a call to the access with a COLP request, access provides special COL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_16_a_Connected_number_user_provided_not_verified_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, not verified) with connected sub-address <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" and an access transport parameter containing the connected sub-address.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 iii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_16_a_call_setup, B_ISUP_PTC:B_3_16_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_16_a_call_release, B_ISUP_PTC:B_3_16_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_16_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1,c_dss1_CODN1,c_dss1_C ODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_16_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_ CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_16_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_generic_number_su baddress (TCV_B_cic))			
		B_3_16_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that there is a special arrangement from the access signalling					

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Test Case Dynamic Behaviour

Detailed Comments : ...

system regarding an additional connected number and that the connected party has subscribed to the sub-addressing supplementary service.

Case a)

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
                ... ringing tone ...
-----connect-----> -----ANM----->
:
```

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
                ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides special COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_16_b_Connected_number_user_provided_not_verified_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : Connected number (user provided, not verified) with connected sub-address To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" and an access transport parameter containing the connected sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 iii) /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_16_b_call_setup, B_ISUP_PTC:B_3_16_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_16_b_call_release, B_ISUP_PTC:B_3_16_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_16_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN1,c_dss1_CODS1))			
		A_3_16_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_16_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np_generic_number_suba ddress (TCV_B_cic))			
		B_3_16_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to the sub-addressing supplementary service.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----connect-----> -----CON----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----connect-----> -----CON----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides special COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_17_a_COL_cannot_be_transferred Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : COL cannot be transferred <p>To verify that the address presentation restricted indicator in the connected number in ANM or in CON is set to "presentation restricted" or "address not available" and that the screening indicator shall be set to "network provided" if the COL cannot be transferred.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_17_a_call_setup, B_ISUP_PTC:B_3_17_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_17_a_call_release, B_ISUP_PTC:B_3_17_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_17_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_17_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_17_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE_EITHER (ANM_r_AB_Connected_number_pr (TCV_B_cic),ANM_r_AB_Connected_number_address_na (TCV_B_cic))			2, 3
		B_3_17_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that no COL can be transferred.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)
access IUT SPB
<-----setup-----<-----IAM-----
-----alert-----> -----ACM----->
 ... ringing tone ...
-----connect-----> -----ANM----->
:

access IUT SPB
<-----setup-----<-----IAM-----
-----alert-----> -----ACM----->
 ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->

-
1. Set up a call to the access with a COLP request, access doesnt provide the COL.
 2. address not available ConNb.
 3. restricted ConNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_17_b_COL_cannot_be_transferred Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : COL cannot be transferred <p>To verify that the address presentation restricted indicator in the connected number in ANM or in CON is set to "presentation restricted" or "address not available" and that the screening indicator shall be set to "network provided" if the COL cannot be transferred.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_17_b_call_setup, B_ISUP_PTC:B_3_17_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_17_b_call_release, B_ISUP_PTC:B_3_17_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_17_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_o_s (TCV_flag_dss1,TSV_CREF1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_17_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_17_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE_EITHER (CON_r_AB_Connected_number_pr (TCV_B_cic),CON_r_AB_Connected_number_address_na (TCV_B_cic))			2, 3
		B_3_17_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that no COL can be transferred. Case b)					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ...</div> <div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>-----connect----->-----CON-----></div><div>:</div></div> <div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>-----connect----->-----CON-----></div><div><---connect_ack-----</div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div> <div><div>1. Set up a call to the access with a COLP request, access doesnt provide the COL.</div><div>2. address not available ConNb.</div><div>3. restricted ConNb.</div></div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_18_a_COLP_interaction_with_MSN Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : COLP – interaction with MSN <p>To verify that an exchange with MSN can provide the connected party multiple subscriber number or full ISDN number as the connected number on call answer.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.6.14 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_18_a_call_setup, B_ISUP_PTC:B_3_18_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_18_a_call_release, B_ISUP_PTC:B_3_18_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_18_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN3))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_18_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_18_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))		1	
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE_EITHER (ANM_r_AB_Connected_number_ISDN (TCV_B_cic), ANM_r_AB_Connected_number_MSN(TCV_B_cic))		2	
		B_3_18_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called user has activated the Multiple Subscriber Number (MSN) supplementary service.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with a COLP request.
 2. ConNb – full ISDN number; ConNb.AdSg: TSP_Nb_A
ConNb2 – multiple subscriber number ; ConNb2.AdSg: TSP_Nb_A_MSN

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_3_18_b_COLP_interaction_with_MSN Group : ISUP_Supplementary_Services/ISS_3_COLP/ Purpose : COLP – interaction with MSN <p>To verify that an exchange with MSN can provide the connected party multiple subscriber number or full ISDN number as the connected number on call answer.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 5.6.14 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_3_18_b_call_setup, B_ISUP_PTC:B_3_18_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_3_18_b_call_release, B_ISUP_PTC:B_3_18_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_3_18_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1,c_dss1_CODN3))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_3_18_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_3_18_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))		1	
15		+B_RECEIVE_EITHER (CON_r_AB_Connected_number_ISDN (TCV_B_cic),CON_r_AB_Connected_number_MSN (TCV_B_cic))		2	
		B_3_18_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called user has activated the Multiple Subscriber Number (MSN) supplementary service.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)

access

IUT

SPB

<-----setup-----<-----IAM-----

-----connect----->-----CON----->

:

access

IUT

SPB

<-----setup-----<-----IAM-----

-----connect----->-----CON----->

<---connect_ack-----

-----disconnect----->-----REL----->

<-----release-----<-----RLC-----

-----release_complete-->

-
1. Set up a call to the access with a COLP request.
 2. ConNb – full ISDN number; ConNb.AdSg: TSP_Nb_A
ConNb2 – multiple subscriber number ; ConNb2.AdSg: TSP_Nb_A_MSN

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_1_a_Presentation_of_restricted_COL Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Presentation of restricted COL <p>To verify that a local exchange will not pass the information on to the access signalling system when a connected number is received in the ANM or CON and its address presentation restricted indicator is set to "presentation restricted" , i.e. that presentation is denied on the user-network interface (UNI).</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_1_a_call_setup, B_ISUP_PTC:B_4_1_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_1_a_call_release, B_ISUP_PTC:B_4_1_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_1_a_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
13		+A_access_RECEIVE (connect_without_party_number (TSV_CREF1))		2	
		A_4_1_a_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1,16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_1_a_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_s_BA_Connected_number_pr (TCV_B_cic))			
		B_4_1_a_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to COLP.					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

Case a)

access	IUT	SPB
-----setup----->	-----IAM----->	
<-----alert-----	<-----ACM-----	
	... ringing tone ...	
<-----connect-----	<-----ANM-----	
:		

access	IUT	SPB
-----setup----->	-----IAM----->	
<----call_proceeding----		
<-----alert-----	<-----ACM-----	
	... ringing tone ...	
<-----connect-----	<-----ANM-----	
-----disconnect----->	-----REL----->	
<-----release-----	<-----RLC-----	
-----release_complete-->		

-
1. Set up a call from the access with a COLP request.
 2. The possible verdicts from observations on access are failed or inconclusive .

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_1_b_Presentation_of_restricted_COL Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Presentation of restricted COL <p>To verify that a local exchange will not pass the information on to the access signalling system when a connected number is received in the ANM or CON and its address presentation restricted indicator is set to "presentation restricted", i.e. that presentation is denied on the user-network interface (UNI).</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_1_b_call_setup, B_ISUP_PTC:B_4_1_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_1_b_call_release, B_ISUP_PTC:B_4_1_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_1_b_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number (TCV_flag_dss1,TSV_CREF1))		1	
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (connect_without_party_number (TSV_CREF1))		2	
		A_4_1_b_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_1_b_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B))			
16		+B_SEND (CON_s_BA_Connected_number_pr (TCV_B_cic))			
		B_4_1_b_call_release			
17		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to COLP. Case b)					

Continued on next page

Test Case Dynamic Behaviour

1. Set up a call from the access with a COLP request.
2. The possible verdicts from observations on access are failed or inconclusive

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_4_2_a_Presentation_of_restricted_COL_to_override_category_calling_user Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Presentation of restricted COL to "override category" calling user <p>To verify that the received connected number and optionally the additional connected number in the generic number can be conveyed successfully to an "override category" calling user, if the called user has activated the Connected Line Presentation Restriction (COLR) supplementary service.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.1.2 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_2_a_call_setup, B_ISUP_PTC:B_4_2_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_2_a_call_release, B_ISUP_PTC:B_4_2_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_2_a_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number (TCV_flag_dss1,TSV_CREF1))			
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
13		+A_access_RECEIVE (connect_with_any_party_number (TSV_CREF1))			
		A_4_2_a_call_release			
14		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
15		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_2_a_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B))			1
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_s_BA_Connected_number_pr_generic_number (TCV_B_cic))			2, 3
		B_4_2_a_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user has an "override category".					

Continued on next page

Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

Case a)

```

access          IUT          SPB
-----setup-----> -----IAM----->
<-----alert-----<-----ACM-----
... ringing tone ...
<-----connect-----<-----ANM-----
:
```

```

access          IUT          SPB
-----setup-----> -----IAM----->
<---call_proceeding---
<-----alert-----<-----ACM-----
... ringing tone ...
<-----connect-----<-----ANM-----
-----disconnect-----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->
```

-
1. Set up a call from the access with a COLP request.
 2. ConNb and addConNb in GenNb.
 3. The possible verdicts from observations on access are failed or inconclusive

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_4_2_b_Presentation_of_restricted_COL_to_override_category_calling_user Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Presentation of restricted COL to "override category" calling user <p>To verify that the received connected number and optionally the additional connected number in the generic number can be conveyed successfully to an "override category" calling user, if the called user has activated the Connected Line Presentation Restriction (COLR) supplementary service.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.1.2 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_2_b_call_setup, B_ISUP_PTC:B_4_2_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_2_b_call_release, B_ISUP_PTC:B_4_2_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_2_b_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND(setup_no_calling_party_number (TCV_flag_dss1,TSV_CREF1))			
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (connect_with_any_party_number (TSV_CREF1))			
		A_4_2_b_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_2_b_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB_COLP_in_optional_forward_call_indicator ("*B))		1	
16		+B_SEND (CON_s_BA_Connected_number_pr_generic_number (TCV_B_cic))		2	
		B_4_2_b_call_release			
17		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user has an "override category".					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)

```
SPC                IUT                SPB
-----setup-----> -----IAM----->
<-----connect----- <-----CON-----
:
```

```
access            IUT                SPB
-----setup-----> -----IAM----->
<---call_proceeding----
<-----connect----- <-----ANM-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call from the access with a COLP request.
 2. The possible verdicts from observations on access are failed or inconclusive.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_3_a_Passing_on_information_relating_to_COLR_ANM Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the IUT shall pass transparently all information related to the COLR supplementary service in the address presentation restricted indicator of the connected number and additional connect number in the generic number. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.2.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup			
10		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
11		+A_RECEIVE (ACM_m (TCV_A_cic))			
12		+A_RECEIVE (ANM_r_BA_connectedNum_AddrPresentRestInd_01 (TCV_A_cic))			
13		A_call_release			
14		+A_RECEIVE_CALL_REL			
15		B_call_setup			
16		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('**B))			
		+B_SEND (ACM_m (TCV_B_cic))			
		+B_SEND (ANM_s_BA_connectedNum_AddrPresentRestInd_01 (TCV_B_cic))			
		B_call_release			
		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----<-----IAM----- -----ACM----->-----ACM-----> ... ringing tone ... -----ANM----->-----ANM-----> : 1. The PTC will assist a call set up with the expected parameters. 2. ConNb. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----ACM-- <-----ACM-- ringing tone..... <-----ANM-- <-----ANM-- communication.....					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div> <-----REL-- <-----REL-- </div> <div> --RLC----- --RLC-----> </div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_3_b_Passing_on_information_relating_to_COLR_CON Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the IUT shall pass transparently all information related to the COLR supplementary service in the address presentation restricted indicator of the connected number and additional connect number in the generic number. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.2.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup			
10		+ A_SEND (IAM_s_AB_OFCl_COLRqI (TCV_A_cic)) +A_RECEIVE (CON_r_BA_connectedNum_AddrPresentRestInd_01 (TCV_A_cic))			
11		A_call_release +A_RECEIVE_CALL_REL			
12		B_call_setup + B_RECEIVE_cic (IAM_r_AB_OFCl_COLRqI ('**B))			
13		+B_SEND (CON_s_BA_connectedNum_AddrPresentRestInd_01 (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----<-----IAM----- -----CON----->-----CON-----> : 1. The PTC will assist a call set up with the expected parameters. 2. ConNb. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----CON-- <-----CON-- <-----REL-- <-----REL-- --RLC-----> --RLC----->					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_3_c_Passing_on_information_relating_to_COLR_ANM					
Group : ISUP_Supplementary_Services/ISS_4_COLR/					
Purpose : To verify that the IUT shall pass transparently all information related to the COLR supplementary service in the address presentation restricted indicator of the connected number and additional connect number in the generic number.					
Configuration : MTC_and_two_ISUP_PTCs					
Default :					
Comments : REFERENCE: 6.5.2.2.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_r_BA_connectedNum_AddrPresentRestInd_and_G enNb_01 (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('**B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_s_BA_connectedNum_AddrPresentRestInd_and_G enNb_01 (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM----- <-----IAM----- -----ACM-----> -----ACM-----> ... ringing tone ... -----ANM-----> -----ANM-----> : 1. The PTC will assist a call set up with the expected parameters. 2. ConNb and add.ConNb in GenNb. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----ACM-- <-----ACM-- ringing tone..... <-----ANM-- <-----ANM--					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>.....communication.....</div> <div> <-----REL-- <-----REL-- </div> <div> --RLC-----> --RLC-----> </div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_3_d_Passing_on_information_relating_to_COLR_CON Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the IUT shall pass transparently all information related to the COLR supplementary service in the address presentation restricted indicator of the connected number and additional connect number in the generic number. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.2.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
10		+A_RECEIVE (CON_r_BA_connectedNum_AddrPresentRestInd_and_Ge nNb_01 (TCV_A_cic))			
		A_call_release			
11		+A_RECEIVE_CALL_REL			
		B_call_setup			
12		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('*'B))			
13		+B_SEND (CON_s_BA_connectedNum_AddrPresentRestInd_and_Ge nNb_01 (TCV_B_cic))			
		B_call_release			
14		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> <-----IAM-----<-----IAM----- -----CON----->-----CON-----> : </pre> <hr/> 1. The PTC will assist a call set up with the expected parameters. 2. ConNb and add.ConNb in GenNb. <hr/> Implementation: <pre> TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----CON-- <-----CON-- <-----REL-- <-----REL-- --RLC-----> --RLC-----> </pre>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_4_a_Discarding_the_connected_number_if_the_presentation_is_restricted_ANM Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the connected number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.4.1 /Q.731 PRE-TEST CONDITIONS : Arrange the data in IUT so that the connected number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('**B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_s_BA_connectedNum_AddrPresentRestInd_01_dis carded (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- : </pre> <hr/> 1. The PTC will initiate a call set up with the expected parameters. 2. Provide restricted ConNb to be discarded.					
Implementation: <pre> TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----ACM-- <-----ACM-- ringing tone..... <-----ANM-- <-----ANM-- communication..... <-----REL-- <-----REL-- --RLC-----> --RLC-----> </pre>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_4_b_Discarding_the_connected_number_if_the_presentation_is_restricted_CON Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the connected number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.4.1 /Q.731 PRE-TEST CONDITIONS : Arrange the data in IUT so that the connected number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
10		+A_RECEIVE (CON_m (TCV_A_cic))			
		A_call_release			
11		+A_RECEIVE_CALL_REL			
		B_call_setup			
12		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('**B))			
13		+B_SEND (CON_s_BA_connectedNum_AddrPresentRestInd_01 (TCV_B_cic))			
		B_call_release			
14		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- : 1. The PTC will initiate a call set up with the expected parameters. 2. Provide restricted ConNb to be discarded. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----CON-- <-----CON-- <-----REL-- <-----REL-- --RLC-----> --RLC----->					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_5_a_Discarding_the_additional_connected_number_in_the_generic_number_if_the_presentation_is_restricted_ANM Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.4.1 /Q.731 PRE-TEST CONDITIONS : Arrange the data in IUT so that the additional connected number in the generic number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCL_COLRql (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+ B_RECEIVE_cic (IAM_r_AB_OFCL_COLRql ('**B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_s_BA_connectedNum_AddrPresentRestInd_and_G enNb_01 (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- : 1. The PTC will initiate a call set up with the expected parameters. 2. Provide restricted ConNb and restricted add.ConNb in GenNb to be discarded. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----ACM-- <-----ACM-- ringing tone..... <-----ANM-- <-----ANM-- communication.....					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div> <-----REL-- <-----REL-- </div> <div> --RLC-----> --RLC-----> </div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_5_b_Discarding_the_additional_connected_number_in_the_generic_number_if_the_presentation_is_restricted_CON Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.4.1 /Q.731 PRE-TEST CONDITIONS : Arrange the data in IUT so that the additional connected number in the generic number is discarded.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
10		+A_RECEIVE (CON_m (TCV_A_cic))			
		A_call_release			
11		+A_RECEIVE_CALL_REL			
		B_call_setup			
12		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('**B))			
13		+B_SEND (CON_s_BA_connectedNum_AddrPresentRestInd_and_GenNb_01 (TCV_B_cic))			
		B_call_release			
14		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----CON----- <-----CON----- : </pre> <hr/> 1. The PTC will initiate a call set up with the expected parameters. 2. Provide restricted ConNb and restricted add.ConNb in GenNb to be discarded. <hr/> Implementation: <pre> TTCN EXCHANGE TTCN ---IAM-----> ---IAM-----> <-----CON--- <-----CON--- <-----REL--- <-----REL--- ---RLC-----> ---RLC-----> </pre>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_4_6_a_Resetting_the_address_signals_of_the_connected_number_whose_release_is_restricted_forbidden_ANM Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : To verify that for a connected number which is not to be released to the originating network the setting of the address presentation restricted indicator can be changed from "presentation restricted" to "address not available" and that the address signals are reset. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 6.5.2.4.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup			
10		+ A_SEND (IAM_s_AB_OFCl_COLRql (TCV_A_cic))			
11		+A_RECEIVE (ACM_m (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		A_call_release			
14		+A_RECEIVE_CALL_REL			
15		B_call_setup			
16		+ B_RECEIVE_cic (IAM_r_AB_OFCl_COLRql ('**B))			
		+B_SEND (ACM_m (TCV_B_cic))			
		+B_SEND (ANM_s_BA_connectedNum_AddrPresentRestInd_01 (TCV_B_cic))			
		B_call_release			
		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- : 1. The PTC will initiate a call set up with the expected parameters. 2. Provide restricted ConNb to be reset. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----ACM-- <-----ACM-- ringing tone..... <-----ANM-- <-----ANM-- communication..... <-----REL-- <-----REL-- --RLC-----> --RLC----->					

Test Case Dynamic Behaviour	
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Test Case Name	: ISS_I_4_6_b_Resetting_the_address_signals_of_the_connected_number_whose_release_is_restricted_forbidden_CON
Group	: ISUP_Supplementary_Services/ISS_4_COLR/
Purpose	: To verify that for a connected number which is not to be released to the originating network the setting of the address presentation restricted indicator can be changed from "presentation restricted" to "address not available" and that the address signals are reset.
Configuration	: MTC_and_two_ISUP_PTCs
Default	:
Comments	: REFERENCE: 6.5.2.4.1 /Q.731

Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB_OFCL_COLRql (TCV_A_cic))			
10		+A_RECEIVE (CON_m (TCV_A_cic))			
		A_call_release			
11		+A_RECEIVE_CALL_REL			
		B_call_setup			
12		+ B_RECEIVE_cic (IAM_r_AB_OFCL_COLRql ('*'B))			
13		+B_SEND (CON_s_BA_connectedNum_AddrPresentRestInd_01 (TCV_B_cic))			
		B_call_release			
14		+B_SEND_CALL_REL			

Detailed Comments : SPC SPA SPB

```

-----IAM-----> -----IAM----->
<-----CON----- <-----CON-----
:

```

1. The PTC will initiate a call set up with the expected parameters.
2. Provide restricted ConNb to be reset.

Implementation:

```

TTCN                EXCHANGE                TTCN
|--IAM----->|--IAM----->|
|<-----CON--|<-----CON--|
|<-----REL--|<-----REL--|
|--RLC----->|--RLC----->|

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_7_a_Restricted_connected_number_user_provided_verified_and_passed Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, verified and passed) To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_7_a_call_setup, B_ISUP_PTC:B_4_7_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_7_a_call_release, B_ISUP_PTC:B_4_7_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_7_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1, c_dss1_CODN1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_7_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_7_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_up_verified_passed_pr (TCV_B_cic))			
		B_4_7_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to COLR.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)
access IUT SPB
<-----setup-----<-----IAM-----
-----alert-----> -----ACM----->
 ... ringing tone ...
-----connect-----> -----ANM----->
:

access IUT SPB
<-----setup-----<-----IAM-----
-----alert-----> -----ACM----->
 ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->

-
1. Set up a call to the access with a COLP request, access provides valid COL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_7_b_Restricted_connected_number_user_provided_verified_and_passed Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, verified and passed) To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_7_b_call_setup, B_ISUP_PTC:B_4_7_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_7_b_call_release, B_ISUP_PTC:B_4_7_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_7_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1, c_dss1_CODN1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_7_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_7_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_up_verified_passed_pr (TCV_B_cic))			
		B_4_7_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to COLR. Case b)					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ...</div> <div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>-----connect----->-----CON-----></div><div>:</div></div> <div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>-----connect----->-----CON-----></div><div><---connect_ack-----</div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div> <div><div></div><div>1. Set up a call to the access with a COLP request, access provides valid COL.</div></div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_8_a_Restricted_connected_number_user_provided_verified_and_passed_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, verified and passed) with connected sub-address To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is valid. Additionally, an access transport parameter containing the connected sub-address shall also be provided.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_8_a_call_setup, B_ISUP_PTC:B_4_8_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_8_a_call_release, B_ISUP_PTC:B_4_8_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_8_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1, c_dss1_CODN1, c_dss1_CODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_8_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_8_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_up_verified_passed_sub address_pr (TCV_B_cic))			
		B_4_8_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Arrange the data in the IUT so that the connected party has subscribed to COLR and SUB.

Case a)

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
                ... ringing tone ...
-----connect-----> -----ANM----->
:
```

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
                ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides valid COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_8_b_Restricted_connected_number_user_provided_verified_and_passed_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, verified and passed) with connected sub-address To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is valid. Additionally, an access transport parameter containing the connected sub-address shall also be provided. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_8_b_call_setup, B_ISUP_PTC:B_4_8_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_8_b_call_release, B_ISUP_PTC:B_4_8_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_8_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1, c_dss1_CODN1, c_dss1_CODS1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_8_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_8_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_up_verified_passed_subaddress_pr (TCV_B_cic))			
		B_4_8_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to COLR and SUB.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)
access IUT SPB
<-----setup-----<-----IAM-----
-----connect-----> -----CON----->
:

access IUT SPB
<-----setup-----<-----IAM-----
-----connect-----> -----CON----->
<---connect_ack-----
-----disconnect----> -----REL----->
<-----release-----<-----RLC-----
-----release_complete-->

-
1. Set up a call to the access with a COLP request, access provides valid COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_9_a_Restricted_connected_number_network_provided Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (network provided) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is not valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_9_a_call_setup, B_ISUP_PTC:B_4_9_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_9_a_call_release, B_ISUP_PTC:B_4_9_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_9_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1, c_dss1_CODN2))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_9_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_9_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_pr (TCV_B_cic))			
		B_4_9_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to the COLR.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with a COLP request, access provides invalid COL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_9_b_Restricted_connected_number_network_provided Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (network provided) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is not valid. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_9_b_call_setup, B_ISUP_PTC:B_4_9_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_9_b_call_release, B_ISUP_PTC:B_4_9_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_9_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1, c_dss1_CODN2))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_9_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_9_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np_pr (TCV_B_cic))			
		B_4_9_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to the COLR. <div> Case b) access </div> <div> IUT </div> <div> SPB </div>					

Continued on next page

Test Case Dynamic Behaviour

1. Set up a call to the access with a COLP request, access provides invalid COL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_10_a_Restricted_connected_number_network_provided_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (network provided) with connected sub-address To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is not valid. Additionally, an access transport parameter containing the connected sub-address shall also be provided. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_10_a_call_setup, B_ISUP_PTC:B_4_10_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_10_a_call_release, B_ISUP_PTC:B_4_10_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_10_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1, c_dss1_CODN2, c_dss1_CODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_10_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_10_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1, 2
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_subaddress_pr (TCV_B_cic))			
		B_4_10_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed COLR and SUB.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
                ... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
                ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with a COLP request, access provides invalid COL with sub-address.
 2. Scrl "network provided" is implicit.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_10_b_Restricted_connected_number_network_provided_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (network provided) with connected sub-address To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is not valid. Additionally, an access transport parameter containing the connected sub-address shall also be provided. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_10_b_call_setup, B_ISUP_PTC:B_4_10_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_10_b_call_release, B_ISUP_PTC:B_4_10_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_10_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1, c_dss1_CODN2, c_dss1_CODS1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_10_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_10_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))		1	
15		+B_RECEIVE (CON_r_AB_Connected_number_np_subaddress_pr (TCV_B_cic))		2	
		B_4_10_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed COLR and SUB.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case b)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----connect-----> -----CON----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----connect-----> -----CON----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

-
1. Set up a call to the access with a COLP request, access provides invalid COL with sub-address.
 2. Scrl "network provided" is implicit.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_11_a_Restricted_connected_number_user_provided_not_verified Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, not verified) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" – both having the address presentation restricted indicator set to "presentation restricted". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_11_a_call_setup, B_ISUP_PTC:B_4_11_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_11_a_call_release, B_ISUP_PTC:B_4_11_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_11_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1, c_dss1_CODN1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_11_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_11_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_generic_number_pr (TCV_B_cic))			
		B_4_11_a_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to COLR.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Case a)

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
:
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides special COL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_11_b_Restricted_connected_number_user_provided_not_verified Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, not verified) To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" – both having the address presentation restricted indicator set to "presentation restricted". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_11_b_call_setup, B_ISUP_PTC:B_4_11_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_11_b_call_release, B_ISUP_PTC:B_4_11_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_11_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number (TCV_flag_dss1, TSV_CREF1, c_dss1_CODN1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_11_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_11_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np_generic_number_pr (TCV_B_cic))			
		B_4_11_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to COLR.					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
Case b)		
access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----connect----->	-----CON----->	
:		
access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----connect----->	-----CON----->	
<---connect_ack-----		
-----disconnect----->	-----REL----->	
<-----release-----	<-----RLC-----	
-----release_complete-->		
<hr/>		
1. Set up a call to the access with a COLP request, access provides special COL.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_12_a_Restricted_connected_number_user_provided_not_verified_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, not verified) with connected sub-address To verify that the IUT can provide a default calling party number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" – both having the address presentation restricted indicator set to "presentation restricted" and additionally an access transport parameter containing the connected sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_12_a_call_setup, B_ISUP_PTC:B_4_12_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_12_a_call_release, B_ISUP_PTC:B_4_12_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_12_a_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
11		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1, c_dss1_CODN1, c_dss1_CODS1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_12_a_call_release			
13		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
14		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_12_a_call_setup			
15		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))		1	
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_r_AB_Connected_number_np_generic_number_subaddress_pr (TCV_B_cic))			
		B_4_12_a_call_release			
18		+B_RECEIVE_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions

Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to COLR and SUB.

Case a)

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
          ... ringing tone ...
-----connect-----> -----ANM----->
:
```

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
          ... ringing tone ...
-----connect-----> -----ANM----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides special COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_4_12_b_Restricted_connected_number_user_provided_not_verified_with_connected_subaddress Group : ISUP_Supplementary_Services/ISS_4_COLR/ Purpose : Restricted connected number (user provided, not verified) with connected sub-address To verify that the IUT can provide a default calling party number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" – both having the address presentation restricted indicator set to "presentation restricted" and additionally an access transport parameter containing the connected sub-address. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 6.5.2.5.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_4_12_b_call_setup, B_ISUP_PTC:B_4_12_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_4_12_b_call_release, B_ISUP_PTC:B_4_12_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_4_12_b_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (connect_with_party_number_and_subaddress (TCV_flag_dss1,TSV_CREF1, c_dss1_CODN1, c_dss1_CODS1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_4_12_b_call_release			
12		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
13		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_4_12_b_call_setup			
14		+B_SEND (IAM_s_BA_COLP_in_optional_forward_call_indicator (TCV_B_cic))			1
15		+B_RECEIVE (CON_r_AB_Connected_number_np_generic_number_subaddress_pr (TCV_B_cic))			
		B_4_12_b_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

regarding an additional connected number and that the connected party has subscribed to COLR and SUB.

Case b)

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----connect-----> -----CON----->
:
```

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----connect-----> -----CON----->
<---connect_ack-----
-----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
-----release_complete-->
```

1. Set up a call to the access with a COLP request, access provides special COL with sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_1_Terminal_portability_requested_by_the_calling_party Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, requested by the calling party <p>To verify that the calling party can suspend and resume an outgoing call and that user initiated SUS and RES messages are sent to the succeeding exchange.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 a) /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_1_call_setup, B_ISUP_PTC:B_5_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_1_call_suspend, B_ISUP_PTC:B_5_1_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_5_1_call_release, B_ISUP_PTC:B_5_1_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			sets final verdict
11		A_5_1_call_setup +A_access_CALL_SETUP_AB_DEFAULT A_5_1_call_suspend			1.
12		+A_access_SEND (suspend_o_s (0, TSV_CREF1))			2.
13		+A_access_RECEIVE (suspend_ack_o_r (1, TSV_CREF1))			
14		+A_access_SEND (resume_o_s (0, TSV_CREF1))			3.
15		+A_access_RECEIVE (resume_ack_o_r (1, TSV_CREF1))			
16		A_5_1_call_release +A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
18		B_5_1_call_setup +B_RECEIVE_cic (IAM_r_AB_ISDN (**B))			
19		+B_SEND (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		B_5_1_call_suspend +B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
23		+B_RECEIVE (RES_user_initiated (TCV_B_cic))			
24		B_5_1_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling party subscribes to the Terminal portability service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          SPA          SPB
-----setup-----> -----IAM----->
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
-----tp-suspend-----> -----SUS----->
-----tp-resume-----> -----RES----->
:

```

```

SPB          IUT          SPA
-----setup-----> -----IAM----->
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
-----tp-suspend-----> -----SUS----->
-----tp-resume-----> -----RES----->
-----disconnect-----> -----REL----->
<-----release ----- <-----RLC-----
---release comp---->

```

-
1. Set up a call from SPA to SPB.
 2. Suspend the call by the calling party (ISDN subscriber).
 3. Resume the call by the calling party (ISDN subscriber).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_2_Terminal_portability_requested_by_the_called_party Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, requested by the called party <p>To verify that IUT informs the calling party that a suspend and a resume have been requested by the called party upon receipt of user initiated SUS and RES messages.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 b) /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_2_call_setup, B_ISUP_PTC:B_5_2_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_2_call_suspend, B_ISUP_PTC:B_5_2_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_5_2_call_release, B_ISUP_PTC:B_5_2_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			sets final verdict
		A_5_2_call_setup			
11		+A_access_CALL_SETUP_AB_DEFAULT			1.
		A_5_2_call_suspend			
12		+A_access_RECEIVE (suspend_o_r (1, TSV_CREF1))			
13		+A_access_SEND (suspend_ack_o_s (0, TSV_CREF1))			
14		+A_access_RECEIVE (resume_o_r (1, TSV_CREF1))			
15		+A_access_SEND (resume_ack_o_s (0, TSV_CREF1))			
		A_5_2_call_release			
16		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_5_2_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_ISDN (**B))			
19		+B_SEND (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_SEND (ANM_m (TCV_B_cic))			
		B_5_2_call_suspend			
22		+B_SEND (SUS_user_initiated (TCV_B_cic))			2.
23		+B_SEND (RES_user_initiated (TCV_B_cic))			3.
		B_5_2_call_release			
24		+B_RECEIVE_CALL_REL			
Detailed Comments : <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">access</div> <div style="text-align: center;">SPA</div> <div style="text-align: center;">SPB</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">-----setup-----></div> <div style="text-align: center;">-----IAM-----></div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"><-----alert-----</div> <div style="text-align: center;"><-----ACM-----</div> </div>					

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Test Case Dynamic Behaviour	
<div>Detailed Comments : ...</div> <div><div>... ringing tone ...</div><div><-----connect-----<-----ANM-----</div><div>... check communication ...</div><div><-----tp-suspend----<-----SUS-----</div><div><-----tp-resume-----<-----RES-----</div><div>:</div></div> <div><div>SPB</div><div>IUT</div><div>SPA</div><div>-----setup----->-----IAM-----></div><div><---call proceeding---</div><div><-----alert-----<-----ACM-----</div><div>... ringing tone ...</div><div><-----connect-----<-----ANM-----</div><div>... check communication ...</div><div><-----tp-suspend----<-----SUS-----</div><div><-----tp-resume-----<-----RES-----</div><div>---disconnect----->-----REL-----></div><div><-----release -----<-----RLC-----</div><div>---release comp----></div></div> <div><div></div><div></div><div></div></div> <div><div>1. Set up a call from SPA to SPB.</div><div>2. Suspend the call by the called party (ISDN subscriber).</div><div>3. Resume the call by the called party (ISDN subscriber).</div></div>	

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_5_3_Terminal_portability_requested_by_local_served_user_no_Resume_after_Suspend Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, requested by local served user, no Resume after Suspend <p>To verify that the call is released with cause #102 (recovery on timer expiry) by the IUT if timer T2 expires because the local served user does not resume the call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.2 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_3_call_setup, B_ISUP_PTC:B_5_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_5_3_call_suspend, B_ISUP_PTC:B_5_3_call_suspend)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
8		A_5_3_call_setup +A_access_CALL_SETUP_TILL_ALERT_AB (setup_no_calling_party_number(0, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1)) +ringing_tone			1.
9		A_5_3_call_suspend			
10		+A_access_SEND (suspend_o_s (0, TSV_CREF1))			2.
11		+A_access_RECEIVE (suspend_ack_o_r (1, TSV_CREF1))			
12		START T2			
13		? TIMEOUT T2		(P)	
14		A_ACCESS_PCO ? OTHERWISE CANCEL T2		(F)	
15		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
16		+A_access_SEND_CALL_REL_DEFAULT			
17		B_5_3_call_setup +B_RECEIVE_cic (IAM_r_AB_ISDN (**B)) +B_SEND (ACM_m (TCV_B_cic)) +ringing_tone			
18					
19		B_5_3_call_suspend			
20		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
21		START T2			
22		? TIMEOUT T2		(P)	
23		B_PCO ? OTHERWISE CANCEL T2		(F)	
24		+B_RECEIVE_CALL_REL_withPDU (REL_r_AB_Cause_102 (TCV_B_cic), RLC_m (TCV_B_cic))			3.
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the local user subscribes to the Terminal portability service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          SPA          SPB
-----setup-----> -----IAM----->
<-----alert----- <-----ACM-----
... ringing tone ...
-----tp-suspend-----> -----SUS----->

                                     |
                                     T2

<-----disconnect----- <-----REL----->
                           <-----RLC----->
:

access          IUT          SPA
-----setup-----> -----IAM----->
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
-----tp-suspend-----> -----SUS----->

                                     |
                                     T2

<-----disconnect----- <-----REL----->
-----release-----> <-----RLC----->
<---release comp---

```

-
1. Set up a call from SPA to SPB.
 2. Suspend the call by the calling party (ISDN subscriber).
 3. Check if the call is released with cause #102.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_4_a_Terminal_portability_release_suspended_call Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, release suspended call <p>To verify that a suspended call can be released by the IUT, if the local user or the remote user releases the call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_4_a_call_setup, B_ISUP_PTC:B_5_4_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_4_a_call_suspend, B_ISUP_PTC:B_5_4_a_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_5_4_a_call_setup			
9		+A_access_CALL_SETUP_AB_DEFAULT			1.
		A_5_4_a_call_suspend			
10		+A_access_SEND (suspend_o_s (0, TSV_CREF1))			2.
11		+A_access_RECEIVE (suspend_ack_o_r (1, TSV_CREF1))			
12		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			3.
13		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_5_4_a_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB_ISDN ('**B'))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+ringing_tone			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_5_4_a_call_suspend			
18		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : <div> <div>Case a)</div> <div> <div>access</div> <div>SPA</div> <div>SPB</div> </div> <div> <div>-----setup-----></div> <div>-----IAM-----></div> </div> <div> <div><-----alert-----</div> <div><-----ACM-----</div> </div> <div> <div>... ringing tone ...</div> </div> <div> <div><-----connect-----</div> <div><-----ANM-----</div> </div> <div> <div>... check communication ...</div> </div> <div> <div>-----tp-suspend----></div> <div>-----SUS-----></div> </div> <div> <div>-----disconnect----></div> <div>-----REL-----></div> </div> </div> <div>Case a)</div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          IUT          SPA
-----setup-----> -----IAM----->
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
-----tp-suspend----> -----SUS----->
-----disconnect----> -----REL----->
-----release-----> <-----RLC-----
<---release comp---
```

-
1. Set up a call from SPA to SPB.
 2. Suspend the call by the calling party (ISDN subscriber).
 3. Release the suspended call by the local user.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_4_b_Terminal_portability_release_suspended_call Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, release suspended call <p>To verify that a suspended call can be released by the IUT, if the local user or the remote user releases the call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.1.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_4_b_call_setup, B_ISUP_PTC:B_5_4_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_4_b_call_suspend, B_ISUP_PTC:B_5_4_b_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_5_4_b_call_setup			
9		+A_access_CALL_SETUP_AB_DEFAULT			1.
		A_5_4_b_call_suspend			
10		+A_access_SEND (suspend_o_s (0, TSV_CREF1))			2.
11		+A_access_RECEIVE (suspend_ack_o_r (1, TSV_CREF1))			
12		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
13		+A_access_SEND_CALL_REL_DEFAULT			
		B_5_4_b_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB_ISDN (**B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+ringing_tone			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_5_4_b_call_suspend			
18		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
19		+B_SEND_CALL_REL			3.
Detailed Comments : <p>Case b)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----alert----- <-----ACM----- ... ringing tone ... <-----connect----- <-----ANM----- ... check communication ... -----tp-suspend--> -----SUS-----> <-----release----- <-----REL----- : Case b) </pre>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access                IUT                SPA
-----setup-----> -----IAM----->
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
-----tp-suspend-->  -----SUS----->
<-----disconnect--- <-----REL-----
----release----->  -----RLC----->
<---release comp---
```

-
1. Set up a call from SPA to SPB.
 2. Suspend the call by the calling party (ISDN subscriber).
 3. Release the suspended call by the remote user.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_5_Terminal_portability_requested_by_the_calling_party_forward_transit_call Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : To verify that the SUS and RES messages are passed on transparently by the IUT, if the calling party requests the service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 4.5.2.2.1 a); 4.5.2.3.1; 4.5.2.4.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB_ISDN (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+TWAIT(10)			
13		+A_SEND (SUS_user_initiated (TCV_A_cic))		2	
14		+A_SEND (RES_user_initiated (TCV_A_cic))		3	
		A_call_release			
15		+A_SEND_CALL_REL			
		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_ISDN (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		START T_WAIT (10)			
20		? TIMEOUT T_WAIT			
21		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
22		+B_RECEIVE (RES_user_initiated (TCV_B_cic))			
		B_call_release			
23		+B_RECEIVE_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... -----SUS-----> -----SUS-----> -----RES-----> -----RES-----> : ----- Implementation: SPA IUT SPB -----IAM-----> -----IAM----->					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----ACM-----<-----ACM-----  
... ringing tone ...  
<-----ANM-----<-----ANM-----  
... check communication ...  
-----SUS----->-----SUS----->  
-----RES----->-----RES----->  
  
-----REL----->-----REL----->  
<-----RLC-----<-----RLC-----
```

1. Set up a call from SPA to SPB.
2. Suspend the call by the calling party (ISDN subscriber).
3. Resume the call by the calling party (ISDN subscriber).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_6_Terminal_portability_requested_by_the_called_party_backward_transit_call Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : To verify that the SUS and RES messages are passed on transparently by the IUT, if the called party requests the service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 4.5.2.2.1 b); 4.5.2.3.1; 4.5.2.4.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA_ISDN (」**B))			
10		+A_SEND (ACM_m (TCV_A_cic))			
11		+A_SEND (ANM_m (TCV_A_cic))			
12		+TWAIT(10)			
13		+A_SEND (SUS_user_initiated (TCV_A_cic))		2	
14		+A_SEND (RES_user_initiated (TCV_A_cic))		3	
		A_call_release			
15		+A_RECEIVE_CALL_REL			
		B_call_setup			
16		+B_SEND (IAM_s_BA_ISDN (TCV_B_cic))		1	
17		+B_RECEIVE (ACM_m (TCV_B_cic))			
18		+B_RECEIVE (ANM_m (TCV_B_cic))			
19		START T_WAIT (10)			
20		? TIMEOUT T_WAIT			
21		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
22		+B_RECEIVE (RES_user_initiated (TCV_B_cic))			
		B_call_release			
23		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----<-----IAM----- -----ACM----->-----ACM-----> ... ringing tone ... -----ANM----->-----ANM-----> ... check communication ... -----SUS----->-----SUS-----> -----RES----->-----RES-----> : Implementation: SPA IUT SPB <-----IAM-----<-----IAM-----					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

-----ACM-----> -----ACM----->
... ringing tone ...
-----ANM-----> -----ANM----->
... check communication ...
-----SUS-----> -----SUS----->
-----RES-----> -----RES----->

<-----REL-----<-----REL-----<
-----RLC-----> -----RLC----->

1. Set up a call from the UNI at SPB.
2. The called party at UNI at SPC suspends the call (ISDN subscriber).
3. The called party at UNI at SPC resumes the call (ISDN subscriber).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_7_Terminal_portability_requested_by_the_calling_party Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, requested by the calling party <p>To verify that the IUT informs the called party that suspend and resume have been requested by the calling party upon receipt of user initiated SUS and RES messages.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.5.1 a) /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_7_call_setup, B_ISUP_PTC:B_5_7_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_7_call_suspend, B_ISUP_PTC:B_5_7_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_5_7_call_release, B_ISUP_PTC:B_5_7_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			sets final verdict
		A_5_7_call_setup			
11		+A_access_CALL_SETUP_BA_DEFAULT			
		A_5_7_call_suspend			
12		+A_access_RECEIVE (suspend_o_r (0, TSV_CREF1))			
13		+A_access_SEND (suspend_ack_o_s (1, TSV_CREF1))			
14		+A_access_RECEIVE (resume_o_r (0, TSV_CREF1))			
15		+A_access_SEND (resume_ack_o_s (1, TSV_CREF1))			
		A_5_7_call_release			
16		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_5_7_call_setup			
18		+B_SEND (IAM_r_AB_ISDN ("*B))			1.
19		+B_RECEIVE (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_5_7_call_suspend			
22		+B_SEND (SUS_user_initiated (TCV_B_cic))			2.
23		+B_SEND (RES_user_initiated (TCV_B_cic))			3.
		B_5_7_call_release			
24		+B_RECEIVE_CALL_REL			
Detailed Comments : <div style="display: flex; justify-content: space-around;"> access SPA SPB </div> <div style="display: flex; justify-content: space-around;"> <----setup----- <-----IAM----- </div> <div style="display: flex; justify-content: space-around;"> -----alert-----> -----ACM-----> </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

... ringing tone ...
-----connect-----> -----ANM----->
... check communication ...
<---tp-suspend--- <-----SUS-----
<---tp-resume--- <-----RES-----
:

access          IUT          SPA
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<--connect ack----
... check communication ...
<---tp-suspend--- <-----SUS-----
<---tp-resume--- <-----RES-----
----disconnect-----> -----REL----->
<-----release ----- <-----RLC-----
----release comp---->

```

-
1. Set up a call from the UNI at SPB.
 2. The calling party at SPB suspends the call (ISDN subscriber).
 3. The calling party at SPB resumes the call (ISDN subscriber).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_8_Terminal_portability_requested_by_the_called_party Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, requested by the called party <p>To verify that the called party can suspend and resume an incoming call and that user initiated SUS and RES messages are sent to the preceding exchange.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.5.2.5.1 b) /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_8_call_setup, B_ISUP_PTC:B_5_8_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_8_call_suspend, B_ISUP_PTC:B_5_8_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_5_8_call_release, B_ISUP_PTC:B_5_8_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			sets final verdict
		A_5_8_call_setup			
11		+A_access_CALL_SETUP_BA_DEFAULT			
		A_5_8_call_suspend			
12		+A_access_SEND (suspend_o_s (1, TSV_CREF1))			2.
13		+A_access_RECEIVE (suspend_ack_o_r (0, TSV_CREF1))			
14		+A_access_SEND (resume_o_s (1, TSV_CREF1))			3.
15		+A_access_RECEIVE (resume_ack_o_r (0, TSV_CREF1))			
		A_5_8_call_release			
16		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_5_8_call_setup			
18		+B_SEND (IAM_r_AB_ISDN ("*B))			1.
19		+B_RECEIVE (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_5_8_call_suspend			
22		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
23		+B_RECEIVE (RES_user_initiated (TCV_B_cic))			
		B_5_8_call_release			
24		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the called party subscribes to the Terminal portability service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          SPA          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
... check communication ...
----tp-suspend--> -----SUS----->
----tp-resume---> -----RES----->
:

```

```

access          IUT          SPA
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<--connect ack----
... check communication ...
----tp-suspend--> -----SUS----->
----tp-resume---> -----RES----->
----disconnect-----> -----REL----->
<-----release----- <-----RLC-----
---release comp---->

```

-
1. Set up a call from the UNI at SPB.
 2. The called party at UNI at SPA suspends the call (ISDN subscriber).
 3. The called party at UNI at SPA resumes the call (ISDN subscriber).

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_5_9_Terminal_portability_national_network_does_not_support_the_service Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : To verify that the SUS and RES messages are discarded by the IUT without notification if the served user requests suspend and resume, but the national network does not support the Terminal portability service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 4.5.2.3.2 ; 4.5.2.4.2 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA_ISDN (**B))			
10		+A_SEND (ACM_m (TCV_A_cic))			
11		+A_SEND (ANM_m (TCV_A_cic))			
12		+TWAIT(10)			
13		+A_SEND (SUS_user_initiated (TCV_A_cic))			
14		+A_SEND (RES_user_initiated (TCV_A_cic))			
		A_call_release			
15		+A_RECEIVE_CALL_REL			
		B_call_setup			
16		+B_SEND (IAM_s_BA_ISDN (TCV_B_cic))			1
17		+B_RECEIVE (ACM_m (TCV_B_cic))			
18		+B_RECEIVE (ANM_m (TCV_B_cic))			
19		START T_WAIT (10)			
20		? TIMEOUT T_WAIT			
21		B_PCO ? OTHERWISE CANCEL T_10s		(F)	
		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----<-----IAM----- -----ACM-----> -----ACM-----> ... ringing tone ... -----ANM-----> -----ANM-----> ... check communication ... -----SUS-----> Nothing observed -----RES-----> : Implementation: SPA IUT SPB					

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Test Case Dynamic Behaviour	
<div>Detailed Comments : ...</div> <div><div><-----IAM-----<-----IAM-----</div><div>-----ACM----->-----ACM-----></div><div>... ringing tone ...</div><div>-----ANM----->-----ANM-----></div><div>... check communication ...</div><div>-----SUS-----></div><div>Nothing observed</div><div>-----RES-----></div><div><-----REL-----<-----REL-----</div><div>-----RLC----->-----RLC-----></div></div> <div>1. Set up a call from the UNI at SPB.</div>	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_10_Terminal_portability_request_for_UUS3_while_call_is_suspended Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, request for UUS3 while call is suspended <p>To verify that a request for User-to-user signalling service 3 is rejected by the IUT if the call is currently suspended and if the IUT is the suspend controlling exchange.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 4.6.13.3 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_10_call_setup, B_ISUP_PTC:B_5_10_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_10_call_suspend, B_ISUP_PTC:B_5_10_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_5_10_call_release, B_ISUP_PTC:B_5_10_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			sets final verdict
		A_5_10_call_setup			
11		+A_access_CALL_SETUP_BA_DEFAULT			
		A_5_10_call_suspend			
12		+A_access_SEND (suspend_o_s (1, TSV_CREF1))			2.
13		+A_access_RECEIVE (suspend_ack_o_r (0, TSV_CREF1))			
14		+A_access_SEND (facility_o_s (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_SEND (resume_o_s (1, TSV_CREF1))			3.
16		+A_access_RECEIVE (resume_ack_o_r (0, TSV_CREF1))			
		A_5_10_call_release			
17		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_5_10_call_setup			
19		+B_SEND (IAM_r_AB_ISDN ("*B))			1.
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
21		+ringing_tone			
22		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_5_10_call_suspend			
23		+B_RECEIVE (SUS_user_initiated (TCV_B_cic))			
24		+B_RECEIVE (RES_user_initiated (TCV_B_cic))			
		B_5_10_call_release			
25		+B_RECEIVE_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

```

access          SPA          SPB
<---setup-----<---IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
... check communication ...
-----tp-suspend----> -----SUS----->
-----UUS3-req-----> reject - nothing happens in the network
-----tp-resume-----> -----RES----->
:

access          IUT          SPA
<---setup-----<---IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<---connect ack----
... check communication ...
-----tp-suspend----> -----SUS----->
-----UUS3-req-----> reject - nothing happens in the network
-----tp-resume-----> -----RES----->
-----disconnect-----> -----REL----->
<-----release -----<-----RLC-----
---release comp---->

```

-
1. Set up a call from the UNI at SPB.
 2. The called party suspends the call (ISDN subscriber).
 3. The called party resumes the call (ISDN subscriber).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_5_11_Terminal_portability_notification_from_a_private_to_a_public_network Group : ISUP_Supplementary_Services/ISS_5_TP/ Purpose : Terminal portability, notification from a private to a public network (OLE) To verify that the suspend/resume notification from the private network is transported in the CPG message with the event indicator set to "progress" and that the SUS /RES messages are not used in this case. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference4.4 /ETS 300 356-7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_5_9_call_setup, B_ISUP_PTC:B_5_9_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_5_9_call_suspend, B_ISUP_PTC:B_5_9_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_5_9_call_release, B_ISUP_PTC:B_5_9_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			sets final verdict
11		A_5_9_call_setup +A_access_CALL_SETUP_AB_DEFAULT			1.
12		A_5_9_call_suspend +A_access_SEND (suspend_o_s (0, TSV_CREF1))			
13		+A_access_RECEIVE (suspend_ack_o_r (1, TSV_CREF1))			
14		+A_access_SEND (resume_o_s (0, TSV_CREF1))			
15		+A_access_RECEIVE (resume_ack_o_s (1, TSV_CREF1))			
16		A_5_9_call_release +A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
18		B_5_9_call_setup +B_RECEIVE_cic (IAM_r_AB_ISDN (**B))			
19		+B_SEND (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		B_5_9_call_suspend +B_RECEIVE (CPG_r_AB_With_suspend(TCV_B_cic))			2.
23		+B_RECEIVE (CPG_r_AB_With_resume(TCV_B_cic))			3.
24		B_5_9_call_release +B_RECEIVE_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT so that the local user belongs to a private network.

```

access          SPA          SPB
-----setup-----> -----IAM----->
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
----tp-suspend----> -----CPG----->
----tp-resume----> -----CPG----->
:
```

```

access          IUT          SPA
-----setup-----> -----IAM----->
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
----tp-suspend----> -----CPG----->
----tp-resume----> -----CPG----->
----disconnect----> -----REL----->
<-----release ----- <-----RLC-----
---release comp---->
```

-
1. Set up a call from SPA to SPB.
 2. Suspend the call by the private network is sent in CPG to the public network.
 3. Resume the call by the private network is sent in CPG to the public network.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_1_32_octets_usertouser_information Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : 32 octets user-to-user information <p>To verify that the IUT can successfully initiate a call having 32 octets of user-to-user information in the messages related to the set up or the release of the call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.1.2.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_1_call_setup, B_ISUP_PTC:B_6_1_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_1_call_connect, B_ISUP_PTC:B_6_1_1_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_1_1_call_release, B_ISUP_PTC:B_6_1_1_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_1_1_call_setup			
12		+A_access_SEND (setup_o_s_with_32octet_uui (0, TSV_CREF1, TSV_BCHNUM1))			1.
13		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
14		+A_access_RECEIVE (alert_o_r_with_32octet_uui (TSV_CREF1))			
		A_6_1_1_call_connect			
15		+A_access_RECEIVE (connect_o_r_with_32octet_uui (TSV_CREF1))			
		A_6_1_1_call_release			
16		+A_access_RECEIVE (disconnect_o_r_with_32octet_uui(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_1_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_32octet_UserToUserInfo (**B))			
19		+B_SEND (ACM_s_BA_32octet_UserToUserInfo (TCV_B_cic))			
		B_6_1_1_call_connect			
20		+B_SEND (ANM_s_BA_32octet_UserToUserInfo (TCV_B_cic))			
		B_6_1_1_call_release			
21		+B_SEND (REL_s_BA_32octet_UserToUserInfo (TCV_B_cic))			
22		+B_RECEIVE (RLC_m (TCV_B_cic))			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.

```

access          SPA          SPB
----setup(UUInf)---->  ----IAM(UUInf)---->
<----alert(UUInf)-----  <----ACM(UUInf)-----
                        ... ringing tone ...
<--connect(UUInf)-----  <----ANM(UUInf)-----
                        ... check communication ...
<---disc(UUInf)-----  <----REL(UUInf)-----
                        ----RLC----->

```

```

access          IUT          SPB
----setup(UUInf)---->  ----IAM(UUInf)---->
<----call proceeding----
<----alert(UUInf)-----  <----ACM(UUInf)-----
                        ... ringing tone ...
<--connect(UUInf)-----  <----ANM(UUInf)-----
                        ... check communication ...
<---disc(UUInf)-----  <----REL(UUInf)-----
----release ----->  ----RLC----->
<---release comp---

```

1. Set up a call from UNI at SPA to SPB with 32 octets of user-to-user information.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_2_a_UUS1_implicit_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : UUS1 implicit – request <p>To verify that the IUT can successfully initiate/transit a call with an UUS 1 implicit request, having the user-to-user information parameter in the IAM, without the user-to-user indicators parameter.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.1.1.1 ; 1.1.5.2.1.1.3 ; 1.1.5.2.2–4.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_2_a_call_setup, B_ISUP_PTC:B_6_1_2_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_2_a_call_connect, B_ISUP_PTC:B_6_1_2_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_1_2_a_call_release, B_ISUP_PTC:B_6_1_2_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_1_2_a_call_setup			
12		+A_access_SEND (setup_o_s_with_uui (0, TSV_CREF1, TSV_BCHNUM1))			1.
13		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
14		+A_access_RECEIVE (alert_o_r_with_uui (TSV_CREF1))			
		A_6_1_2_a_call_connect			
15		+A_access_RECEIVE (connect_o_r_with_uui (TSV_CREF1))			
		A_6_1_2_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_2_a_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo ("**B))			
19		+B_SEND (ACM_s_BA_UserToUserInfo (TCV_B_cic))			
		B_6_1_2_a_call_connect			
20		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
		B_6_1_2_a_call_release			
21		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
22		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA                      SPB
-----setup(UUInf)----> -----IAM(UUInf)----->
<---alert(UUInf)----- <-----ACM(UUInf)-----
                        ... ringing tone ...
<---connect(UUInf)---- <-----ANM(UUInf)-----
                        ... check communication ...
<---disc(UUInf)----- <-----REL(UUInf)-----
                        -----RLC----->

```

```

Case a)
access          IUT                      SPB
-----setup(UUInf)----> -----IAM(UUInf)----->
<---call proceeding--
<---alert(UUInf)----- <-----ACM(UUInf)-----
                        ... ringing tone ...
<---connect(UUInf)---- <-----ANM(UUInf)-----
                        ... check communication ...
<---disc(UUInf)----- <-----REL(UUInf)-----
-----release -----> -----RLC----->
<---release comp---

```

1. Set up a call from UNI at SPA to SPB with user-to-user information.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_2_b_UUS1_implicit_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : To verify that the IUT can successfully initiate/transit a call with an UUS 1 implicit request, having the user-to-user information parameter in the IAM, without the user-to-user indicators parameter. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.1.1.1 ; 1.1.5.2.1.1.3 ; 1.1.5.2.2-4.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup			1
10		+A_SEND (IAM_s_AB_UserToUserInfo (TCV_A_cic))			
11		+A_RECEIVE (ACM_r_BA_UserToUserInfo (TCV_A_cic))			
12		+A_RECEIVE (ANM_r_BA_User_to_user_info (TCV_A_cic))			
13		A_call_release			
14		+A_RECEIVE (REL_r_BA_User_to_user_info (TCV_A_cic))			
15		+A_SEND (RLC_m (TCV_A_cic))			
16		B_call_setup			
17		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo ("*B))			
18		+B_SEND (ACM_s_BA_UserToUserInfo (TCV_B_cic))			
19		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
20		B_call_release			
21		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
22		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> <----ACM(UUInf)----- <----ACM(UUInf)----- ... ringing tone ... <----ANM(UUInf)----- <----ANM(UUInf)----- ... check communication ... <----REL(UUInf)----- <----REL(UUInf)----- -----RLC----- <----RLC-----> <hr/> Implementation: SPA IUT SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> <----ACM(UUInf)----- <----ACM(UUInf)----- ... ringing tone ... <----ANM(UUInf)----- <----ANM(UUInf)-----					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div>... check communication ...<div><---REL(UUInf)-----<---REL(UUInf)-----<div>-----RLC-----RLC-----></div></div></div></div> <div>1. Set up a call from UNI at SPA to SPB with user-to-user information.</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_3_a_UUS1_implicit_discarded_with_indication_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : UUS1 implicit – discarded with indication received To verify that the IUT can, after successfully initiating/transiting a call with an UUS1 implicit request, continue normal call set up if the first backward message is received with the user-to-user indicators set to "user-to-user information discarded by the network". Note: The user-to-user information is discarded because the following network does not support it.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.3 ; 1.1.5.2.2–4.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_3_a_call_setup, B_ISUP_PTC:B_6_1_3_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_3_a_call_connect, B_ISUP_PTC:B_6_1_3_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_1_3_a_call_release, B_ISUP_PTC:B_6_1_3_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_1_3_a_call_setup			
12		+A_access_SEND (setup_o_s_with_uui (0, TSV_CREF1, TSV_BCHNUM1))			1.
13		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
14		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
		A_6_1_3_a_call_connect			
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_6_1_3_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_3_a_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo ("**B))			
19		+B_SEND (ACM_s_BA_UserToUserInd_NetworkDiscard (TCV_B_cic))			2.
		B_6_1_3_a_call_connect			
20		+B_SEND (ANM_m (TCV_B_cic))			
		B_6_1_3_a_call_release			
21		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA                      SPB
----setup(UUInf)---->  -----IAM(UUInf)----->
<--alert(UUInf disc)----- <-----ACM(UUInf disc)--
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
<-----disc----- <-----REL-----
                      -----RLC----->

```

```

Case a)
access          IUT                      SPB
----setup(UUInf)---->  -----IAM(UUInf)----->
<---call proceeding---
<--alert(UUInf disc)----- <-----ACM(UUInf disc)--
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
<-----disc----- <-----REL-----
-----release ----->  -----RLC----->
<---release comp---

```

-
1. Set up a call from UNI at SPA to SPB with user-to-user information.
 2. First backward message with user-to-user indicators set to UUInf discarded by the network.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_3_b_UUS1_implicit_discarded_with_indication_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : To verify that the IUT can, after successfully initiating/transiting a call with an UUS1 implicit request, continue normal call set up if the first backward message is received with the user-to-user indicators set to "user-to-user information discarded by the network". Note: The user-to-user information is discarded because the following network does not support it. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.3; 1.1.5.2.2.2; 1.1.5.2.3.2; 1.1.5.2.4.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup			1
10		+A_SEND (IAM_s_AB_UserToUserInfo (TCV_A_cic)) +A_RECEIVE (ACM_r_BA_UserToUserInd_NetworkDiscard (TCV_A_cic))			2
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release			
13		+A_RECEIVE_CALL_REL			
14		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo ("**B)) +B_SEND (ACM_s_BA_UserToUserInd_NetworkDiscard (TCV_B_cic)) +B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM(UUInf)-----> -----IAM(UUInf)-----> <---ACM(UUInf disc)-- <---ACM(UUInf disc)--- ... ringing tone ... <---ANM----- <---ANM----- ... check communication ... <---REL----- <---REL----- -----RLC----- -----RLC-----> </pre> <hr/> Implementation: <pre> SPA IUT SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> </pre>					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div><---ACM(UUInf disc)-- <---ACM(UUInf disc)---</div> <div>... ringing tone ...</div> <div><---ANM----- <---ANM-----</div> <div>... check communication ...</div> <div><---REL----- <---REL-----</div> <div>---RLC----- ---RLC-----></div> <div>1. Set up a call from UNI at SPA to SPB with user-to-user information.</div> <div>2. First backward message with user-to-user indicators set to 'UUInf discarded by the network'.</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_4_a_UUS1_implicit_discarded_but_no_indication_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : UUS1 implicit – discarded but no indication received To verify that the IUT can successfully initiate/transit a call with an UUS1 implicit request, and complete the call if no indication is provided in the backward direction. Note: The user-to-user information is discarded because: 1) the network is unable to pass the service 1 in any message. 2) the remote user may not be able to interpret incoming UUS information.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.3 ; 1.1.5.2.3–5.2/Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_4_a_call_setup, B_ISUP_PTC:B_6_1_4_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_4_a_call_connect, B_ISUP_PTC:B_6_1_4_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_1_4_a_call_release, B_ISUP_PTC:B_6_1_4_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_1_4_a_call_setup			
12		+A_access_SEND (setup_o_s_with_uui (0, TSV_CREF1, TSV_BCHNUM1))			1.
13		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
14		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
		A_6_1_4_a_call_connect			
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_6_1_4_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_4_a_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo ("**B))			
19		+B_SEND (ACM_m (TCV_B_cic))			2.
		B_6_1_4_a_call_connect			
20		+B_SEND (ANM_m (TCV_B_cic))			
		B_6_1_4_a_call_release			
21		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA                      SPB
----setup(UUInf)---->  -----IAM(UUInf)----->
<-----alert----->  <-----ACM----->
                        ... ringing tone ...
<-----connect-----> <-----ANM----->
                        ... check communication ...
<-----disc----->   <-----REL----->
                        -----RLC----->

```

```

Case a)
access          IUT                      SPB
----setup(UUInf)---->  -----IAM(UUInf)----->
<----call proceeding---
<-----alert----->  <-----ACM----->
                        ... ringing tone ...
<-----connect-----> <-----ANM----->
                        ... check communication ...
<-----disc----->   <-----REL----->
-----release ----->  -----RLC----->
<----release comp-----

```

-
1. Set up a call from UNI at SPA to SPB with user-to-user information.
 2. No indication in the first backward message.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_4_b_UUS1_implicit_discarded_but_no_indication_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : To verify that the IUT can successfully initiate/transit a call with an UUS1 implicit request, and complete the call if no indication is provided in the backward direction. Note: The user-to-user information is discarded because: 1) the network is unable to pass the service 1 in any message. 2) the remote user may not be able to interpret incoming UUS information. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.3 ; 1.1.5.2.3-5.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB_UserToUserInfo (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_m (TCV_A_cic))		2	
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo ("*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> <---ACM----- <---ACM----- ... ringing tone ... <---ANM----- <---ANM----- ... check communication ... <---REL----- <---REL----- -----RLC----- -----RLC-----> <hr/> Implementation: SPA IUT SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> <---ACM----- <---ACM-----					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

... ringing tone ...
<---ANM----- <---ANM-----
... check communication ...

<---REL----- <---REL-----
-----RLC----- -----RLC----->

1. Set up a call from UNI at SPA to SPB with user-to-user information.
2. No indication regarding UUS1 in the first backward message.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_5_a_UUS1_implicit_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : UUS1 implicit – acceptance <p>To verify that the IUT can successfully transit/accept a call with an UUS1 implicit request, and transfer/include the user-to-user information parameter in the ACM or CPG or ANM or CON or SGM or REL as implicit acceptance (no user-to-user indicators).</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.1.1.1 ; 1.1.5.2.1.1.3 ; 1.1.5.2.3–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_5_a_call_setup, B_ISUP_PTC:B_6_1_5_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_5_a_call_connect, B_ISUP_PTC:B_6_1_5_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_1_5_a_call_release, B_ISUP_PTC:B_6_1_5_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_1_5_a_call_setup			
12		+A_access_RECEIVE (setup_o_r_with_uui (TSV_CREF1))			
13		+A_access_SEND (alert_o_s_with_uui (1, TSV_CREF1))			
		A_6_1_5_a_call_connect			
14		+A_access_SEND (connect_o_s_with_uui (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_1_5_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_5_a_call_setup			
18		+B_SEND (IAM_s_BA_UserToUserInfo (TCV_B_cic))			1.
19		+B_RECEIVE (ACM_r_BA_UserToUserInfo (TCV_B_cic))			
		B_6_1_5_a_call_connect			
20		+B_RECEIVE (ANM_r_BA_UserToUserInfo (TCV_B_cic))			
		B_6_1_5_a_call_release			
21		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
22		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA                      SPB
<---setup(UUInf)--- <-----IAM(UUInf)-----
-----alert(UUInf)----> -----ACM(UUInf)----->
... ringing tone ...
---connect(UUInf)--> -----ANM(UUInf)----->
... check communication ...
<-----disc(UUInf)----- <-----REL(UUInf)-----
                      -----RLC----->

```

```

Case a)
access          IUT                      SPB
<---setup(UUInf)--- <-----IAM(UUInf)-----
-----alert(UUInf)----> -----ACM(UUInf)----->
... ringing tone ...
---connect(UUInf)--> -----ANM(UUInf)----->
<---connect ack-----
... check communication ...
<-----disc(UUInf)----- <-----REL(UUInf)-----
-----release -----> -----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPB to SPA with user-to-user information.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_5_b_UUS1_implicit_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : To verify that the IUT can successfully transit/accept a call with an UUS1 implicit request, and transfer/include the user-to-user information parameter in the ACM, CPG, ANM, CON, SGM or REL as implicit acceptance (no user-to-user indicators). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.1.1.1 ; 1.1.5.2.1.1.3 ; 1.1.5.2.3-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA_UserToUserInfo ("**B))			
10		+A_SEND (ACM_s_AB_UserToUserInfo (TCV_A_cic))			
11		+A_SEND (ANM_s_AB_User_to_user_info (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE (REL_r_BA_User_to_user_info (TCV_A_cic))			
13		+A_SEND (RLC_m (TCV_A_cic))			
		B_call_setup			
14		+B_SEND (IAM_s_BA_UserToUserInfo (TCV_B_cic))			1
15		+B_RECEIVE (ACM_r_BA_UserToUserInfo (TCV_B_cic))			
16		+B_RECEIVE (ANM_r_BA_User_to_user_info (TCV_B_cic))			
		B_call_release			
17		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)-- <-----IAM(UUInf)----- -----ACM(UUInf)-> -----ACM(UUInf)----> ... ringing tone ... -----ANM(UUInf)-> -----ANM(UUInf)-----> ... check communication ... <----REL(UUInf)-- <-----REL(UUInf)----- -----RLC----->					
Implementation: SPA IUT SPB <----IAM(UUInf)-- <-----IAM(UUInf)----- -----ACM(UUInf)-> -----ACM(UUInf)----> ... ringing tone ... -----ANM(UUInf)-> -----ANM(UUInf)----->					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
<div>... check communication ...</div> <div><----REL(UUInf)---- <-----REL(UUInf)-----</div> <div>-----RLC-----></div>	
1. Set up a call from UNI at SPB to SPA with user-to-user information.	

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_6_a_UUS1_implicit_discard_with_indication_generated Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : UUS1 implicit – discard with indication generated To verify that the IUT can successfully transit/accept a call with an UUS1 implicit request and set the user-to-user indicators to "user-to-user information discarded by the network" in the first backward message, if the network is unable to support it. Note: The user-to-user information is discarded because the network does not support it.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.3 ; 1.1.5.2.3–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_6_a_call_setup, B_ISUP_PTC:B_6_1_6_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_6_a_call_connect, B_ISUP_PTC:B_6_1_6_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_1_6_a_call_release, B_ISUP_PTC:B_6_1_6_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_1_6_a_call_setup			
12		+A_access_RECEIVE (setup_o_r (TSV_CREF1))			
13		+A_access_SEND (alert_o_s_with_fie (1, TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
		A_6_1_6_a_call_connect			
14		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_1_6_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_6_a_call_setup			
18		+B_SEND (IAM_s_BA_UserToUserInfo (TCV_B_cic))			1.
19		+B_RECEIVE (ACM_r_BA_UserToUserInd_NetworkDiscard (TCV_B_cic))			2.
		B_6_1_6_a_call_connect			
20		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_6_1_6_a_call_release			
21		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the network does not support the UUS1 service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA                      SPB
<-----setup----- <-----IAM(UUInf)-----
--alert(UUInf disc)---->  -----ACM(UUInf disc)-->
:

```

```

Case a)
access          IUT                      SPB
<-----setup----- <-----IAM(UUInf)-----
--alert(UUInf disc)---->  -----ACM(UUInf disc)-->
                        ... ringing tone ...
-----connect----->  -----ANM----->
<--connect ack-----
                        ... check communication ...
<----disc----- <-----REL-----
-----release ----->  -----RLC----->
<---release comp-----

```

-
1. Set up a call from UNI at SPB to SPA with user-to-user information.
 2. Check "user-to-user information discarded by the network" in the first backward message (ACM).

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_6_b_UUS1_implicit_discard_with_indication_generated Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_I/ Purpose : To verify that the IUT can successfully transit/accept a call with an UUS1 implicit request and set the user-to-user indicators to "user-to-user information discarded by the network" in the first backward message, if the network is unable to support it. Note: The user-to-user information is discarded because the network does not support it. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.3 ; 1.1.5.2.3-5.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT such that the network does not support the UUS1 service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA (*B))			
10		+A_SEND (ACM_m(TCV_A_cic))			
11		+A_SEND (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_SEND (IAM_s_BA_UserToUserInfo (TCV_B_cic))		1	
14		+B_RECEIVE (ACM_r_AB_UserToUserInd_NetworkDiscard (TCV_B_cic))		2	
15		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----> <-----IAM(UUInf)-----> ---ACM(UUInf disc)--> ---ACM(UUInf disc)--> : 1. Set up a call from UNI at SPB to SPA with user-to-user information. 2. Check "user-to-user information discarded by the network" in the first backward message (ACM). A IUT B <-----IAM-----> <-----IAM(UUInf)-----> -----ACM-----> -----ACM(UUInf disc)-----> -----ANM-----> -----ANM-----> <-----REL-----> <-----REL-----> -----RLC-----> -----RLC----->					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_7_a_UUS1_explicit_nonessential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit non-essential – request <p>To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, by including/transferring the user-to-user information parameter and the user-to-user indicators in the IAM set to "request, not essential".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.1.1.2 ; 1.1.5.2.2-4.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_7_a_call_setup, B_ISUP_PTC:B_6_1_7_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_7_a_call_release, B_ISUP_PTC:B_6_1_7_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_7_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_uui (TSV_CREF1))			
14		A_6_1_7_a_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_1_7_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd ("*B"))			2.
17		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			
18		+ringing_tone			
19		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
20		B_6_1_7_a_call_release +B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
21		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA                      SPB
-----setup(UUInf)----->  -----IAM(UUInf)-----> UUS1 explicit request
<-----alert(UUInf)-----  <-----ACM(UUInf)----- UUS1 explicit response
                        ... ringing tone ...
<---connect(UUInf)-----  <-----ANM(UUInf)-----
                        ... check communication ...
<---disc(UUInf)-----  <-----REL(UUInf)-----
                        -----RLC----->

```

```

Case a)
access          IUT                      SPB
-----setup(UUInf)----->  -----IAM(UUInf)-----> UUS1 explicit request
<---call proceeding---
<-----alert(UUInf)-----  <-----ACM(UUInf)----- UUS1 explicit response
                        ... ringing tone ...
<---connect(UUInf)-----  <-----ANM(UUInf)-----
                        ... check communication ...
<-----disc(UUInf)-----  <-----REL(UUInf)-----
-----release ----->  -----RLC----->
<---release comp-----

```

-
1. Set up a call from UNI at SPA to SPB with user-to-user information.
 2. Check that the Service 1 field in the UUInd is set to request, not essential.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_7_b_UUS1_explicit_non_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, by including/transferring the user-to-user information parameter and the user-to-user indicators in the IAM set to "request, not essential". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.1.1.2 ; 1.1.5.2.2-4.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UserToUserInfo_UserToUserInd (TCV_A_cic))			1
10		+A_RECEIVE (ACM_r_BA_UserToUserInfo_UserToUserInd (TCV_A_cic))			
11		+A_RECEIVE (ANM_r_BA_User_to_user_info (TCV_A_cic))			
12		A_call_release +A_RECEIVE (REL_r_BA_User_to_user_info (TCV_A_cic))			
13		+A_SEND (RLC_m (TCV_A_cic))			
14		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd ("*B))			2
15		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			
16		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
17		B_call_release +B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request <---ACM(UUInf)----- <---ACM(UUInf)----- UUS1 explicit response ... ringing tone ... <---CON(UUInf)----- <---ANM(UUInf)----- ... check communication ... <---REL(UUInf)----- <---REL(UUInf)----- -----RLC----->					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Implementation:

```

SPA                IUT                SPB
----IAM(UUInf)---->  ----IAM(UUInf)-----> UUS1 explicit request
<----ACM(UUInf)----- <----ACM(UUInf)----- UUS1 explicit response

                        ... ringing tone ...
<----CON(UUInf)----- <----ANM(UUInf)-----
                        ... check communication ...

<----REL(UUInf)----- <----REL(UUInf)-----
                        -----RLC----->

```

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check that the Service 1 field in the UUInd is set to 'request, not essential'.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_8_a_UUS1_explicit_nonessential_explicit_rejection_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit non-essential – explicit rejection received To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, and continue normal call set up if the UUS1 service is explicitly rejected (the user-to-user indicators parameter is received as "service not provided" in the ACM or CPG or ANM or CON or REL). Note: The user-to-user information is discarded because: 1) the network is unable to pass the explicit service 1 in any message. 2) the remote user may not be able to interpret incoming UUS information.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.3 ; 1.1.5.2.2-4.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_8_a_call_setup, B_ISUP_PTC:B_6_1_8_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_8_a_call_release, B_ISUP_PTC:B_6_1_8_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_8_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
14		A_6_1_8_a_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_1_8_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd ("*B"))			2.
17		+B_SEND (ACM_s_BA_UserToUserInd_Service1NotProvided (TCV_B_cic))			3.
18		+ringing_tone			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		B_6_1_8_a_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE)					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.

Case a)

```

access          SPA          SPB
----setup(UUInf)---->  ----IAM(UUInf)----> UUS1 explicit request
<---alert(UUInd)----- <---ACM(UUInd)----- UUS1 explicit response
                        ... ringing tone ...
<-----connect----- <-----ANM-----
                        ... check communication ...
<-----disc----- <-----REL-----
                        -----RLC----->

```

Case a)

```

access          IUT          SPB
----setup(UUInf)---->  ----IAM(UUInf)----> UUS1 explicit request
<---call proceeding---
<---alert(UUInd)----- <---ACM(UUInd)----- UUS1 explicit response
                        ... ringing tone ...
<-----connect----- <-----ANM-----
                        ... check communication ...
<---disc----- <---REL-----
----release ----->  ----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check the Service 1 field in the UUInd is set to request, not essential.
3. Send the response Service not provided in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_8_b_UUS1_explicit_non_essential_explicit_rejection_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, and continue normal call set up if the UUS1 service is explicitly rejected (the user-to-user indicators parameter is received as "service not provided" in the ACM, CPG, ANM, CON or REL). Note: The user-to-user information is discarded because: 1) the network is unable to pass the explicit service 1 in any message. 2) the remote user may not be able to interpret incoming UUS information. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.3 ; 1.1.5.2.2-4.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UserToUserInfo_UserToUserInd (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_r_BA_UserToUserInd_Service1NotProvided (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd ("*B))		2	
14		+B_SEND (ACM_s_BA_UserToUserInd_Service1NotProvided (TCV_B_cic))		3	
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request <-----ACM(UUInd)----- <-----ACM(UUInd)----- UUS1 explicit response ... ringing tone ... <---CON----- <---ANM----- ... check communication ... <---REL----- <---REL----- -----RLC----->					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

Implementation:

SPA	IUT	SPB
----IAM(UUInf)---->	----IAM(UUInf)----->	UUS1 explicit request
<---ACM(UUInd)----	<---ACM(UUInd)-----	UUS1 explicit response

... ringing tone ...

<---CON-----<---ANM-----

... check communication ...

<---REL-----<---REL-----
-----RLC----->

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check the Service 1 field in the UUInd is set to 'request, not essential'.
3. Send the response 'Service not provided' in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_9_a_UUS1_explicit_nonessential_implicit_no_explicit_rejection_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit non-essential – implicit (no explicit) rejection received To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, and continue normal call set up if no indication is provided in the backward direction. Note: The user-to-user information is discarded because: 1) the network is unable to pass the explicit service 1 in any message. 2) the remote user may not be able to interpret incoming UUS information.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.3 ; 1.1.5.2.2-4.2 / Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_9_a_call_setup, B_ISUP_PTC:B_6_1_9_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_9_a_call_release, B_ISUP_PTC:B_6_1_9_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_9_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_return_result (TCV_inv_id)))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
14		A_6_1_9_a_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_1_9_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd ("*B))			2.
17		+B_SEND (ACM_s_BA_UserToUserInd_Service1NoInformation (TCV_B_cic))			3.
18		+ringing_tone			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		B_6_1_9_a_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

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Case a)
access          SPA                      SPB
-----setup(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request
<---alert(UUInd)----- <---ACM(UUInd)----- UUS1 explicit response
                        ... ringing tone ...
<---connect----- <---ANM-----
                        ... check communication ...
<-----disc----- <---REL-----
                        -----RLC----->

```

```

Case a)
access          IUT                      SPB
-----setup(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request
<---call proceeding---
<---alert(UUInd)----- <---ACM(UUInd)----- UUS1 explicit response
                        ... ringing tone ...
<---connect----- <---ANM-----
                        ... check communication ...
<-----disc----- <---REL-----
-----release -----> -----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check the Service 1 field in the UUInd is set to request, not essential.
3. Send the response no information in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_9_b_UUS1_explicit_non_essential_implicit_no_explicit_rejection_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, and continue normal call set up if no indication is provided in the backward direction. Note: The user-to-user information is discarded because: 1) the network is unable to pass the explicit service 1 in any message. 2) the remote user may not be able to interpret incoming UUS information. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.3 ; 1.1.5.2.2-4.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UserToUserInfo_UserToUserInd (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_r_BA_UserToUserInd_Service1NoInformation (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd (*'B))		2	
14		+B_SEND (ACM_s_BA_UserToUserInd_Service1NoInformation (TCV_B_cic))		3	
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request <----ACM(UUInd)----- <----ACM(UUInd)----- UUS1 explicit response ... ringing tone ... <----ANM----- <----ANM----- ... check communication ... <----REL----- <----REL----- -----RLC-----> Implementation:					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

SPA	IUT	SPB
----IAM(UUInf)---->	----IAM(UUInf)---->	UUS1 explicit request
<---ACM(UUInd)----	<---ACM(UUInd)-----	UUS1 explicit response
... ringing tone ...		
<---ANM-----	<---ANM-----	
... check communication ...		
<---REL-----	<---REL-----	
	-----RLC----->	

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check the Service 1 field in the UUInd is set to 'request, not essential'.
3. Send the response 'no information' in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_10_IUT_rejects_UUS1_explicit_non_essential_service Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the UUS1 explicit non-essential service can be rejected and the user-to-user indicators are in the ACM or CON set to "service 1 not provided". Note: The user-to-user service is rejected because: 1) the InterME received a CFN from the succeeding network (note 3 table 1-1). 2) the InterME has received user-to-user information in the SGM (Basic call PICS A.13/7) and the succeeding network does not support the segmentation procedure (note 2 table 1-1). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: ISUP v2 reference 1.1.5.2.2.2; table 1-1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_idle			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_communication			
8		+postamble			sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_and_UUInf (**B))			
10		+A_SEND (CFN_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_A_cic))			
11		+A_SEND (CON_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_and_UUInf (TCV_B_cic))			1,2
14		+B_RECEIVE (ACM_r_AB_UUI_service1_response_not_provided (TCV_B_cic))			3
15		+B_RECEIVE (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)----- <----IAM(UUInf)----- UUS1 explicit request -----CFN(UUInd)-----> -----ACM(UUInd)-----> UUS1 explicit response ... ringing tone ... -----CON-----> -----ANM-----> ... check communication ... <----REL----- <----REL----- -----RLC----->					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Implementation:

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      SPA                IUT                SPB
<-----IAM(UUInf)----- <-----IAM(UUInf)----- UUS1 explicit request

-----CFN(UUInd)-----> -----ACM(UUInd)-----> UUS1 explicit response

                ... ringing tone ...
-----CON-----> -----ANM----->
                ... check communication ...

<-----REL-----<-----REL-----
                -----RLC----->

```

1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.
2. The Service 1 field in the UUInd is set to 'request, not essential'.
3. Check the response 'Service not provided' in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_11_a_UUS1_explicit_nonessential_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit non-essential – acceptance <p>To verify that the IUT can successfully transit/accept a call with an UUS1 explicit non-essential request, by transferring/including the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided".</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.1.1.2 ; 1.1.5.2.3–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_11_a_call_setup, B_ISUP_PTC:B_6_1_11_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_11_a_call_release, B_ISUP_PTC:B_6_1_11_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_1_11_a_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_uui (1, TSV_CREF1))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_1_11_a_call_release			
14		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_11_a_call_setup			
16		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_and_UUInf (TCV_B_cic))			1., 2.
17		+B_RECEIVE (ACM_r_AB_UUI_explicit_response_service1_provided_and_UUInf (TCV_B_cic))			3.
18		+ringing_tone			
19		+B_RECEIVE (ANM_r_AB_User_to_user_info (TCV_B_cic))			
		B_6_1_11_a_call_release			
20		+B_SEND (REL_s_BA_User_to_user_info (TCV_B_cic))			
21		+B_RECEIVE (RLC_m (TCV_B_cic))			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions (in case of DLE)

Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.

Case a)

access	SPA	SPB
<-----setup(UUInf)-----	<-----IAM(UUInf)-----	UUS1 explicit request
-----alert(UUInf)----->	-----ACM(UUInf)----->	UUS1 explicit response
... ringing tone ...		
-----connect(UUInf)----->	-----ANM(UUInf)----->	
... check communication ...		
<-----disc(UUInf)-----	<-----REL(UUInf)-----	
	-----RLC----->	

Case a)

access	IUT	SPB
<-----setup(UUInf)-----	<-----IAM(UUInf)-----	UUS1 explicit request
-----alert(UUInf)----->	-----ACM(UUInf)----->	UUS1 explicit response
... ringing tone ...		
-----connect(UUInf)----->	-----ANM(UUInf)----->	
<-----connect ack-----		
... check communication ...		
<-----disc(UUInf)-----	<-----REL(UUInf)-----	
-----release ----->	-----RLC----->	
<---release comp-----		

1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.

2. The Service 1 field in the UUInd is set to request, not essential.

3. Check the response Service provided in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_11_b_IUT_transits_a_call_with_UUS1_explicit_non_essential_requests Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully transit/accept a call with an UUS1 explicit non-essential request, by transferring / including the user to user indicators parameter in the ACM, CPG, ANM , CON or REL set to "Service Provided" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.1.1.2; 1.1.5.2.3-5.1 /Q.737 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_and_UUInf (*B))			
10		+A_SEND (ACM_s_AB_UUI_explicit_response_service1_provided_and_UUInf (TCV_A_cic))			
11		+A_SEND (ANM_s_AB_User_to_user_info (TCV_A_cic))			
12		A_call_release +A_RECEIVE (REL_r_BA_User_to_user_info (TCV_A_cic))			
13		+A_SEND (RLC_m(TCV_A_cic))			
14		B_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_and_UUInf (TCV_B_cic))			1,2
15		+B_RECEIVE (ACM_r_AB_UUI_explicit_response_service1_provided_and_UUInf (TCV_B_cic))			3
16		+B_RECEIVE (ANM_r_AB_User_to_user_info (TCV_B_cic))			
17		B_call_release +B_SEND (REL_s_BA_User_to_user_info (TCV_B_cic))			
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)----- <----IAM(UUInf)----- UUS1 explicit request -----ACM(UUInd)-----> -----ACM(UUInd)-----> UUS1 explicit response ... ringing tone ... -----CON(UUInf)-----> -----ANM(UUInf)-----> ... check communication ... <----REL(UUInf)----- <----REL(UUInf)-----					

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Test Case Dynamic Behaviour

Detailed Comments : ...

-----RLC----->

Implementation:

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      SPA              IUT              SPB
<-----IAM(UUInf)----- <-----IAM(UUInf)----- UUS1 explicit request

-----ACM(UUInd)-----> -----ACM(UUInd)-----> UUS1 explicit response

      ... ringing tone ...
-----CON(UUInf)-----> -----ANM(UUInf)----->
      ... check communication ...

<-----REL(UUInf)----- <-----REL(UUInf)-----
      -----RLC----->

```

1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.
2. The Service 1 field in the UUInd is set to 'request, not essential'.
3. Check the response 'Service provided' in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_12_a_UUS1_explicit_nonessential_implicit_no_explicit_rejection_sent Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit non-essential – implicit (no explicit) rejection sent To verify that the IUT can transfer/accept a call with an UUS1 explicit non-essential request, and reject the service by not providing any user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL. Note: The network or the user cannot support UUS1. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.2 ; 1.1.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_12_a_call_setup, B_ISUP_PTC:B_6_1_12_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_12_a_call_release, B_ISUP_PTC:B_6_1_12_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_12_a_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
10		+A_access_SEND (alert_o_s (1, TSV_CREF1))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
14		A_6_1_12_a_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_1_12_a_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_and_UUInf (TCV_B_cic))			1., 2.
17		+B_RECEIVE (ACM_m (TCV_B_cic))			3.
18		+ringing_tone			
19		+B_RECEIVE (ANM_m (TCV_B_cic))			
20		B_6_1_12_a_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the network cannot support UUS1.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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Case a)
access          SPA          SPB
<----setup(UUInf)---- <----IAM(UUInf)----- UUS1 explicit request
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
... check communication ...
<----disc-----> <----REL----->
-----RLC----->

```

```

Case a)
access          IUT          SPB
<----setup(UUInf)---- <----IAM(UUInf)----- UUS1 explicit request
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<----connect ack----
... check communication ...
<----disc-----> <----REL----->
-----release-----> -----RLC----->
<----release comp----

```

-
1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.
 2. The Service 1 field in the UUInd is set to request, not essential.
 3. Check that there is no user-to-user indicators parameter in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_12_b_IUT_transits_the_rejection_of_UUS1_service Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully transit/accept a call with an UUS1 explicit non-essential request, and reject the service by not providing any user to user indicators parameter in the ACM, CPG,CON ANM or REL. Note: The network or the user cannot support UUS1. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.2; 1.1.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the network cannot support the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_and_UUInf (**B))			
10		+A_SEND (ACM_m (TCV_A_cic))			
11		+A_SEND (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_RECEIVE_CALL_REL			
		B_call_setup			
13		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_and_UUInf (TCV_B_cic))			1,2
14		+B_RECEIVE (ACM_m (TCV_B_cic))			3
15		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)----- <----IAM(UUInf)----- UUS1 explicit request -----ACM-----> -----ACM-----> ... ringing tone ... -----CON-----> -----ANM-----> ... check communication ... <----REL----- <----REL----- -----RLC-----> Implementation:					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ...<div><div>SPA</div><div>IUT</div><div>SPB</div></div><div><div>-----IAM(UUInf)-----</div><div><-----IAM(UUInf)-----</div><div>UUS1 explicit request</div></div><div><div>-----ACM-----></div><div>-----ACM-----></div></div><div><div>... ringing tone ...</div><div>-----CON-----></div><div>-----ANM-----></div><div>... check communication ...</div></div><div><div><-----REL-----</div><div><-----REL-----</div><div>-----RLC-----></div></div><div><div>1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.</div><div>2. The Service 1 field in the UUInd is set to 'request, not essential'.</div><div>3. Check that there is no user to user indicator parameter in the ACM.</div></div></div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_13_a_UUS1_explicit_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit essential – request To verify that the IUT can successfully originate/transit a call having an UUS1 explicit essential request, by including/transferring in the IAM the user-to-user information parameter, the user-to-user indicators set to "request, essential" and the ISDN user part preference indicator in the forward call indicators set to "ISUP required all the way". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.1.1.2 ; 1.1.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_13_a_call_setup, B_ISUP_PTC:B_6_1_13_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_13_a_call_release, B_ISUP_PTC:B_6_1_13_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_13_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, FALSE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, FALSE)))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_uui (TSV_CREF1))			
14		A_6_1_13_a_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_1_13_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required ("*B))			2.
17		+B_SEND (ACM_s_BA_UUI_explicit_response_service1_provided_an d_UUInf (TCV_B_cic))			
18		+ringing_tone			
19		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
20		B_6_1_13_a_call_release +B_SEND (REL_s_BA_User_to_user_info (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_RECEIVE (RLC_m (TCV_B_cic))			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> <p>Case a)</p> <pre> access SPA SPB ----setup(UUInf)----> ----IAM(UUInf)----> UUS1 explicit request <---alert(UUInf)---- <---ACM(UUInf)---- UUS1 explicit response ... ringing tone ... <---connect(UUInf)--- <---ANM(UUInf)----- ... check communication ... <---disc(UUInf)----- <---REL(UUInf)----- -----RLC-----> </pre> <p>Case a)</p> <pre> access IUT SPB ----setup(UUInf)----> ----IAM(UUInf)----> UUS1 explicit request <---call proceeding-- <---alert(UUInf)----- <---ACM(UUInf)----- UUS1 explicit response ... ringing tone ... <---connect(UUInf)--- <---ANM(UUInf)----- ... check communication ... <-----disc(UUInf)----- <-----REL(UUInf)----- -----release -----> -----RLC-----> <---release comp----- </pre> <hr/> <p>1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 field in UUInd is set to "request, essential" and the ISDN user part preference indicator in FCI is set to "ISUP required all the way".</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_13_b_IUT_transits_a_call_for_UUS1_explicit_essential_requestt Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully originate/transit a call having UUS1 explicit essential request, by including/transferring in the IAM the user-to-user information parameter, and the user-to-user indicators set to "request essential" and the ISDN user part preference indicator in the forward call indicators set to "ISUP required all the way". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.1.1.2 ; 1.1.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_r_BA_UUI_explicit_response_service1_provided_and d_UUInf (TCV_A_cic))			
11		+A_RECEIVE (ANM_r_BA_User_to_user_info (TCV_A_cic))			
12		A_call_release +A_RECEIVE (REL_r_BA_User_to_user_info (TCV_A_cic))			
13		+A_SEND (RLC_m (TCV_A_cic))			
14		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required ("*B))		2	
15		+B_SEND (ACM_s_BA_UUI_explicit_response_service1_provided_and d_UUInf (TCV_B_cic))			
16		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
17		B_call_release +B_SEND (REL_s_BA_User_to_user_info (TCV_B_cic))			
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request <----ACM(UUInf)----- <----ACM(UUInf)----- UUS1 explicit response ... ringing tone ... <----CON(UUInf)----- <----ANM(UUInf)----- ... check communication ...					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```
<---REL(UUInf)----- <---REL(UUInf)-----
                      -----RLC----->
```

Implementation:

```
SPA          IUT          SPB
----IAM(UUInf)----> ----IAM(UUInf)-----> UUS1 explicit request
<---ACM(UUInf)---- <---ACM(UUInf)----- UUS1 explicit response
```

```
          ... ringing tone ...
<---CON(UUInf)----- <---ANM(UUInf)-----
          ... check communication ...
```

```
<---REL(UUInf)----- <---REL(UUInf)-----
                      -----RLC----->
```

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check that the Service 1 field in the UUInd is set to 'request, essential' and the ISDN user part preference indicator in FCI is set to "ISUP required all the way".

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_14_a_UUS1_explicit_essential_implicit_rejection_no_explicit_acceptance_received Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit essential – implicit rejection (no explicit acceptance received) To verify that the service can be rejected if no indication (no user-to-user indicators parameter or the service 1 field in the user-to-user indicators set to "no information" or "not provided") is received in the first backward message (implicit rejection of service 1). Note: The network does not understand the service 1 request. In this case the call should be released.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.5.2.2 ; 1.1.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_14_a_call_setup, B_ISUP_PTC:B_6_1_14_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_6_1_14_a_call_release, B_ISUP_PTC:B_6_1_14_a_call_release)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
8		A_6_1_14_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, FALSE)))			1.
9		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
10		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
11		A_6_1_14_a_call_release +A_access_SEND (disconnect_without_component (0, TSV_CREF1, 29))			3.
12		+A_access_RECEIVE_CALL_REL_DEFAULT			
13		B_6_1_14_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_and_UUIInf_and_ ISUP_required ("*B))			2.
14		+B_SEND (ACM_s_BA_UUI_explicit_response_service1_no_informati on (TCV_B_cic))			
15		B_6_1_14_a_call_release +B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
16		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service. <div> Case a) SPA SPB access </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

-----setup(UUInf)----->  -----IAM(UUInf)----> UUS1 explicit request
<-----alert----->      <-----ACM----->
-----disc----->        -----REL----->
                           <-----RLC----->

```

Case a)

```

access
-----setup(UUInf)----->  IUT      SPB
                           -----IAM(UUInf)----> UUS1 explicit request
<---call proceeding--->
<-----alert----->      <-----ACM----->
-----disc----->        -----REL----->
<-----release----->    <-----RLC----->
-----release comp---->

```

-
1. Set up a call UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
 2. Check that the Service 1 field in UUInd is set to request, essential and the ISDN user part preference indicator in FCI is set to "ISUP required all the way".
 3. The call should be released with cause #29 or #69, because the user-to-user indicators parameter in the ACM is received with no information about service 1.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_14_b_Service_rejected_received_in_the_first_backward_message Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the service can be rejected if no indication (no user to user indicators parameter or the service 1 field in the user to user indicator set to " No information " or " not provided) is received in the first backward message (implicit rejection of service1). Note: The network does not understand the service1 request . In this case, the call should be released. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.2 ; 1.1.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_r_BA_UUI_explicit_response_service1_no_informati on (TCV_A_cic))			
11		A_call_release +A_SEND (REL_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_A_cic))		3	
12		+A_RECEIVE (RLC_m (TCV_A_cic))			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required ("*B))		2	
14		+B_SEND (ACM_s_BA_UUI_explicit_response_service1_no_informati on (TCV_B_cic))			
15		B_call_release +B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
16		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB -----IAM(UUInf)-----> -----IAM(UUInf)-----> UUS1 explicit request <---ACM-----<---ACM----- ---REL-----> ---REL-----> <-----RLC-----<-----RLC----- 					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Implementation:

```

      SPA                IUT                SPB
----IAM(UUInf)----> ----IAM(UUInf)-----> UUS1 explicit request
<---ACM-----<---ACM-----

----REL-----> ----REL----->
<-----RLC-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.
2. Check that the Service 1 field in the UUInd is set to 'request, essential' and the ISDN user part preference indicator in FCI is set to "ISUP required all the way".
3. The call should be released with cause #29 or #69 because the user to user indicators parameter in the ACM is received with no information about service1.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_15_a_UUS1_explicit_essential_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 explicit essential – acceptance <p>To verify that the IUT can successfully complete a call with an UUS1 explicit essential request having the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.5.2.1.1.2 ; 1.1.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_15_a_call_setup, B_ISUP_PTC:B_6_1_15_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_15_a_call_release, B_ISUP_PTC:B_6_1_15_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_1_15_a_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, FALSE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, FALSE)))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_uui (1, TSV_CREF1))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_1_15_a_call_release			
14		+A_access_RECEIVE (disconnect_o_r_with_uui(TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_15_a_call_setup			
16		+B_SEND (IAM_s_BA_UUI_explicit_essential_request_and_UUInf_and_ISUP_required (TCV_B_cic))			1., 2.
17		+B_RECEIVE (ACM_r_AB_UUI_explicit_response_service1_provided_and_UUInf (TCV_B_cic))			3.
18		+ringing_tone			
19		+B_RECEIVE (ANM_r_AB_User_to_user_info (TCV_B_cic))			
		B_6_1_15_a_call_release			
20		+B_SEND (REL_s_BA_User_to_user_info (TCV_B_cic))			
21		+B_RECEIVE (RLC_m (TCV_B_cic))			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions (in case of DLE)

Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.

Case a)

```

access          SPA          SPB
<----setup(UUInf)---- <----IAM(UUInf)----- UUS1 explicit request
-----alert(UUInf)----> -----ACM(UUInf)-----> UUS1 explicit response
                ... ringing tone ...
---connect(UUInf)----> -----ANM(UUInf)----->
                ... check communication ...
<----disc(UUInf)----- <----REL(UUInf)-----
                      -----RLC----->

```

Case a)

```

access          IUT          SPB
<----setup(UUInf)---- <----IAM(UUInf)----- UUS1 explicit request
-----alert(UUInf)----> -----ACM(UUInf)-----> UUS1 explicit response
                ... ringing tone ...
---connect(UUInf)----> -----ANM(UUInf)----->
<-----connect ack----
                ... check communication ...
<----disc(UUInf)----- <----REL(UUInf)-----
-----release -----> -----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.

2. The Service 1 field in the UUInd is set to request, essential.

3. Check the response Service provided in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_15_b_IUT_transits_a_call_with_UUS1_explicit_essential_requests Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the IUT can successfully complete a call with an UUS1 explicit essential request having the user to user indicators parameter in the ACM, CPG, ANM , CON or REL set to "Service Provided" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.1.1.2; 1.1.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS: Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required ("**B))			
10		+A_SEND (ACM_s_AB_UUI_explicit_response_service1_provided_an d_UUInf (TCV_A_cic))			
11		+A_SEND (ANM_s_AB_User_to_user_info (TCV_A_cic))			
12		A_call_release +A_RECEIVE (REL_r_BA_User_to_user_info (TCV_A_cic))			
13		+A_SEND (RLC_m (TCV_A_cic))			
14		B_call_setup +B_SEND (IAM_s_BA_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required (TCV_B_cic))			1,2
15		+B_RECEIVE (ACM_r_AB_UUI_explicit_response_service1_provided_an d_UUInf (TCV_B_cic))			3
16		+B_RECEIVE (ANM_r_AB_User_to_user_info (TCV_B_cic))			
17		B_call_release +B_SEND (REL_s_BA_User_to_user_info (TCV_B_cic))			
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)----- <----IAM(UUInf)----- UUS1 explicit request -----ACM(UUInd)-----> -----ACM(UUInd)-----> UUS1 explicit response ... ringing tone ... -----CON(UUInf)-----> -----ANM(UUInf)-----> ... check communication ... <----REL(UUInf)----- <----REL(UUInf)-----					

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Test Case Dynamic Behaviour

-----RLC----->

```

SPA                                IUT                                SPB
<----IAM(UUInf)-----<-----IAM(UUInf)-----> UUS1 explicit request
-----ACM(UUInd)-----> -----ACM(UUInd)-----> UUS1 explicit response

                                ... ringing tone ...
-----CON(UUInf)-----> -----ANM(UUInf)----->
                                ... check communication ...

<----REL(UUInf)-----<----REL(UUInf)-----
                                -----RLC----->

```

1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.
2. The Service 1 field in the UUInd is set to 'request, essential'.
3. Check the response 'Service provided' in the ACM.

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Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_16_b_Service_rejected_received_in_the_REL_message Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the service can be rejected with a release having the cause value 29 "Facility rejected" or 69 "Requested facility not implemented", either with diagnostics (specifying the name of the user to user indicator parameter) Note: The network or user cannot support the service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.2 ; 1.1.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS :					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call, B_ISUP_PTC:B_call)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_call +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required ("*B))			
7		+A_SEND (REL_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_A_cic))		2	
8		+A_RECEIVE (RLC_m (TCV_A_cic))			
9		B_call +B_SEND (IAM_s_BA_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required (TCV_B_cic))		1	
10		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)----- <----IAM(UUInf)----- UUS1 explicit request ---REL-----> ---REL-----> <----RLC----- <hr/> Implementation: SPA IUT SPB <----IAM(UUInf)----- <----IAM(UUInf)----- UUS1 explicit request ---REL-----> ---REL-----> <----RLC----- 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. 2. The call should be released with cause #29 .					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_1_16_c_Service_rejected_received_in_the_REL_message Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : To verify that the service can be rejected with a release having the cause value 29 "Facility rejected" or 69 "Requested facility not implemented", either with diagnostics (specifying the name of the user to user indicator parameter) Note: The network or user cannot support the service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.1.5.2.5.2.2 ; 1.1.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS :					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			Check that there are no hangings in the exchange sets final verdict
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			
		A_call_setup			
6		+A_RECEIVE_cic (IAM_r_BA_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required (**B))			
7		+A_SEND (REL_s_AB_Cause_69_and_diagnostics_for_UUI (TCV_A_cic))		2	
8		+A_RECEIVE (RLC_m (TCV_A_cic))			
		B_call_setup			
9		+B_SEND (IAM_s_BA_UUI_explicit_essential_request_and_UUInf_and_ ISUP_required (TCV_B_cic))		1	
10		+B_RECEIVE (REL_r_AB_Cause_69_and_diagnostics_for_UUI (TCV_B_cic))			
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB <-----IAM(UUInf)----- <-----IAM(UUInf)----- UUS1 explicit request ---REL-----> ---REL-----> <-----RLC-----> <hr/> Implementation: SPA IUT SPB <-----IAM(UUInf)----- <-----IAM(UUInf)----- UUS1 explicit request ---REL-----> ---REL-----> <-----RLC-----> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. 2. The call should be released with cause #69 .					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_17_a_UUS1_interaction_with_UUS2_or_UUS3_successful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS2 (or UUS3) – successful request <p>To verify that more than one supplementary services may be requested at call set up.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.2 ; 1.1.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_17_a_call_setup, B_ISUP_PTC:B_6_1_17_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_17_a_call_release, B_ISUP_PTC:B_6_1_17_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_17_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui_s1_s2 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			3.
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			3.
15		+A_access_RECEIVE (connect_o_r_with_uui_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			4.
16		A_6_1_17_a_call_release +A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			4.
17		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			4.
18		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
19		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_17_a_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd_s1_s2_s3 (**B))			2. S1, S2, S3 explicit request
21		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
22		+ringing_tone			
23		+B_RECEIVE (USR_m (TCV_B_cic))			3.
24		+B_SEND (USR_m (TCV_B_cic))			3.
25		+B_SEND (ANM_s_BA_User_to_user_info_s3 (TCV_B_cic))			4. S3 explicit response
26		B_6_1_17_a_call_release +B_RECEIVE (USR_m (TCV_B_cic))			4.
27		+B_SEND (USR_m (TCV_B_cic))			4.
28		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
29		+B_RECEIVE (RLC_m (TCV_B_cic))			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.

Case a)

```

access          SPA          SPB
----setup(UUInf)---->  ----IAM(UUInf)---->  UUS1, 2, 3 explicit request
<---alert(UUInf)----- <---ACM(UUInf)----- UUS1, 2 explicit response
... ringing tone ...
----user info----->  ----USR----->
<---user info----- <---USR-----
<---connect(UUInf)---- <---ANM(UUInf)----- UUS3 explicit response
... check communication ...
----user info----->  ----USR----->
<---user info----- <---USR-----
<---disc(UUInf)----- <---REL(UUInf)-----
                        ----RLC----->

```

Case a)

```

access          IUT          SPB
----setup(UUInf)---->  ----IAM(UUInf)---->  UUS1, 2, 3 explicit request
<---call proceeding---
<---alert(UUInf)----- <---ACM(UUInf)----- UUS1, 2 explicit response
... ringing tone ...
----user info----->  ----USR----->
<---user info----- <---USR-----
<---connect(UUInf)---- <---ANM(UUInf)----- UUS3 explicit response
... check communication ...
----user info----->  ----USR----->
<---user info----- <---USR-----
<---disc(UUInf)----- <---REL(UUInf)-----
----release ---->  ----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service

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Test Case Dynamic Behaviour	
Detailed Comments :	<ul style="list-style-type: none">...indicators.2. Check that the Service 1, 2, 3 fields in UUInd are set each to request, not essential.3. Support of Service 2.4. Support of Service 3.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_17_b_UUS1_interaction_with_UUS2_or_UUS3_successful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS2 (or UUS3) – successful request <p>To verify that more than one supplementary services may be requested at call set up.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.2 ; 1.1.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_17_b_call_setup, B_ISUP_PTC:B_6_1_17_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_17_b_call_release, B_ISUP_PTC:B_6_1_17_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_17_b_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui_s1_s2 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			3.
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			3.
14		+A_access_SEND (connect_o_s_with_uui_s3 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
16		A_6_1_17_b_call_release +A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			4.
17		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			4.
18		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
19		+A_access_SEND_CALL_REL_DEFAULT B_6_1_17_b_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1., 2. S1, S2, S3 explicit request
21		+B_RECEIVE (ACM_r_AB_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
22		+ringing_tone			
23		+B_SEND (USR_m (TCV_B_cic))			3.
24		+B_RECEIVE (USR_m (TCV_B_cic))			3.
25		+B_RECEIVE (ANM_r_AB_User_to_user_info_s3 (TCV_B_cic))			S3 explicit response
26		B_6_1_17_b_call_release			
26		+B_SEND (USR_m (TCV_B_cic))			4.
27		+B_RECEIVE (USR_m (TCV_B_cic))			4.
28		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
29		+B_RECEIVE (RLC_m (TCV_B_cic))			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.

Case b)

```

access                SPA                SPB
<----setup(UUInf)---- <---IAM(UUInf)---> UUS1, 2, 3 explicit request
-----alert(UUInf)----> ----ACM(UUInf)----> UUS1, 2 explicit response
... ringing tone ...
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
-----conn(UUInf)-----> ----ANM(UUInf)----> UUS3 explicit response
... check communication ...
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
<-----disc(UUInf)----- <-----REL(UUInf)-----
-----RLC----->

```

Case b)

```

access                IUT                SPB
<----setup(UUInf)---- <---IAM(UUInf)---> UUS1, 2, 3 explicit request
-----alert(UUInf)----> ----ACM(UUInf)----> UUS1, 2 explicit response
... ringing tone ...
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
-----conn(UUInf)-----> ----ANM(UUInf)----> UUS3 explicit response
<-----connect ack-----
... check communication ...
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
<-----disc(UUInf)----- <-----REL(UUInf)-----
-----release -----> -----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.

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Test Case Dynamic Behaviour	
Detailed Comments :	<ul style="list-style-type: none">2. The Service 1, 2, 3 fields in UUInd are set each to request, not essential.3. Support of Service 2.4. Support of Service 3.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_18_UUS1_interaction_with_UUS2_or_UUS3_unsuccessful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS2 (or UUS3) – unsuccessful request To verify that the services can be rejected with a REL having the Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name), if more services are requested, one of them is essential and it cannot be provided. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.2 ; 1.1.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_18_call, B_ISUP_PTC:B_6_1_18_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_1_18_call +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
7		+A_access_SEND (disconnect_without_component (1, TSV_CREF1, 29))			2.
8		+A_access_RECEIVE_CALL_REL_DEFAULT B_6_1_18_call			
9		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1. S1, S2, S3 explicit request
10		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			2.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services. <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: left;"> access <---setup(UUInf)----- -----disc-----> </div> <div style="text-align: center;"> SPA <-----IAM(UUInf)----- -----REL-----> <-----RLC----- </div> <div style="text-align: right;"> SPB UUS1, 2, 3 explicit request </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: left;"> access <---setup(UUInf)----- -----disc-----> <-----release----- </div> <div style="text-align: center;"> IUT <-----IAM(UUInf)----- -----REL-----> <-----RLC----- </div> <div style="text-align: right;"> SPB UUS1, 2, 3 explicit request </div> </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

---- release comp---->

1. Set up a call UNI at SPB to SPA with user-to-user information and user-to-user service indicators.
2. The call should be released with cause #29 or #69, because the service 2 cannot be provided.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_19_a_UUS1_interaction_with_UUS2_or_UUS3_independent_acceptance_or_rejection_of_the_services Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS2 (or UUS3) – independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS1 explicit non-essential request, having the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided". At the same time the UUS2 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 2 (or 3) not provided".					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.2 ; 1.1.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_19_a_call_setup, B_ISUP_PTC:B_6_1_19_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_19_a_call_release, B_ISUP_PTC:B_6_1_19_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_19_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui_s1_s2 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			3.
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			3.
15		+A_access_RECEIVE (connect_o_r_with_uui_s3 (TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
16		A_6_1_19_a_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT B_6_1_19_a_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd_s1_s2_s3 (**B))			2. S1, S2, S3 explicit request
19		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
20		+ringing_tone			
21		+B_RECEIVE (USR_m (TCV_B_cic))			3.
22		+B_SEND (USR_m (TCV_B_cic))			3.
23		+B_SEND (ANM_s_BA_User_to_user_info_s3_not_provided (TCV_B_cic))			S3 explicit response
		B_6_1_19_a_call_release			
24		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
25		+B_RECEIVE (RLC_m (TCV_B_cic))			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> <p>Case a)</p> <pre> access SPA SPB ----setup(UUInf)----> ----IAM(UUInf)----> UUS1, 2, 3 explicit request <---alert(UUInf)----- <---ACM(UUInf)----- UUS1, 2 explicit response ... ringing tone ... ----user info-----> -----USR----- <---user info----- <-----USR----- <--connect(UUInf)--- <---ANM(UUInf)----- UUS 3 explicit response ... check communication ... <---disc(UUInf)----- <---REL(UUInf)----- -----RLC-----> </pre> <p>Case a)</p> <pre> access IUT SPB ----setup(UUInf)----> ----IAM(UUInf)----> UUS1, 2, 3 explicit request <---call proceeding--- <---alert(UUInf)----- <---ACM(UUInf)----- UUS1, 2 explicit response ... ringing tone ... ----user info-----> -----USR----- <---user info----- <-----USR----- <--connect(UUInf)--- <---ANM(UUInf)----- UUS 3 explicit response ... check communication ... <---disc(UUInf)----- <---REL(UUInf)----- -----release -----> -----RLC-----> <---release comp----- </pre> <hr/> <p>1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. 2. Check that the Service 1, 2, 3 fields in UUInd are set each to request, not essential. 3. Support of Service 2.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_19_b_UUS1_interaction_with_UUS2_or_UUS3_independent_acceptance_or_rejection_of_the_services Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS2 (or UUS3) – independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS1 explicit non-essential request, having the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided". At the same time the UUS2 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 2 (or 3) not provided".					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.2 ; 1.1.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_19_b_call_setup, B_ISUP_PTC:B_6_1_19_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_19_b_call_release, B_ISUP_PTC:B_6_1_19_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_1_19_b_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			2.
10		+A_access_SEND (alert_o_s_with_fie_and_uui_s1_s2 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			2.
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			2.
14		+A_access_SEND (connect_o_s_with_uui_s3 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
16		A_6_1_19_b_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT B_6_1_19_b_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1. S1, S2, S3 explicit request
19		+B_RECEIVE (ACM_r_AB_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
20		+ringing_tone			
21		+B_SEND (USR_m (TCV_B_cic))			2.
22		+B_RECEIVE (USR_m (TCV_B_cic))			2.
23		+B_RECEIVE (ANM_r_AB_User_to_user_info_s3_not_provided (TCV_B_cic))			S3 explicit response
		B_6_1_19_b_call_release			
24		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
25		+B_RECEIVE (RLC_m (TCV_B_cic))			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.

Case b)

```

access          SPA          SPB
<----setup(UUInf)---- <---IAM(UUInf)----- UUS1, 2, 3 explicit request
-----alert(UUInf)---->  ----ACM(UUInf)----> UUS1, 2 explicit response
... ringing tone ...
<-----user info----- <-----USR-----
-----user info----->  -----USR----->
----connect(UUInf)-->  ----ANM(UUInf)----> UUS 3 explicit response
... check communication ...
<-----disc(UUInf)--- <---REL(UUInf)-----
- --RLC----->

```

Case b)

```

access          IUT          SPB
<----setup(UUInf)---- <---IAM(UUInf)----- UUS1, 2, 3 explicit request
-----alert(UUInf)---->  ----ACM(UUInf)----> UUS1, 2 explicit response
... ringing tone ...
<-----user info----- <-----USR-----
-----user info----->  -----USR----->
----connect(UUInf)-->  ----ANM(UUInf)----> UUS 3 explicit response
<-----connect ack-----
... check communication ...
<-----disc(UUInf)----- <-----REL(UUInf)-----
-----release ----->  -----RLC----->
<---release comp-----

```

- Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators.
- The Service 1, 2, 3 fields in UUInd are set each to request, not essential.
- Support of Service 2.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_20_a_UUS1_interaction_with_UUS3_requested_after_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS3 requested after call set up <p>To verify that the IUT can successfully originate/complete a call with UUS1, having requested UUS3 after call set up. The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.3 ; 1.1.6.13.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_20_a_call_setup, B_ISUP_PTC:B_6_1_20_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_20_a_call_release, B_ISUP_PTC:B_6_1_20_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_1_20_a_call_setup			
9		+A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_uui (TSV_CREF1))			
		A_6_1_20_a_call_release			
14		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_RECEIVE (facility_o_r (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
16		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1)			
17		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
18		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
19		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_20_a_call_setup			
20		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd ("*B))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			
22		+ringing_tone			
23		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
		B_6_1_20_a_call_release			
24		+B_RECEIVE (FAR_r_AB_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			3.
25		+B_SEND (FAA_s_BA_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			
26		+B_RECEIVE (USR_m (TCV_B_cic))			
27		+B_SEND (USR_m (TCV_B_cic))			
28		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
29		+B_RECEIVE (RLC_m (TCV_B_cic))			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services.</p> <p>Case a)</p> <pre> access SPA SPB ----setup(UUInf)----> ----IAM(UUInf)-----> UUS1 explicit request <----alert(UUInf)---- <----ACM(UUInf)----- UUS1 explicit response ... ringing tone ... <--connect(UUInf)--- <----ANM(UUInf)----- ... check communication ... ----facility-req----> -----FAR-----> UUS3 request <----facility-ind---- <-----FAA----- UUS3 response ----user info-----> -----USR----- <----user info----- <-----USR----- <----disc(UUInf)---- <-----REL(UUInf)----- -----RLC-----> </pre> <p>Case a)</p> <pre> access IUT SPB ----setup(UUInf)----> ----IAM(UUInf)-----> UUS1 explicit request <----call proceeding--- <----alert(UUInf)---- <----ACM(UUInf)----- UUS1 explicit response ... ringing tone ... <--connect(UUInf)--- <----ANM(UUInf)----- ... check communication ... ----facility-req----> -----FAR-----> UUS3 request <----facility-ind---- <-----FAA----- UUS3 response ----user info-----> -----USR----- <----user info----- <-----USR----- <----disc(UUInf)---- <-----REL(UUInf)----- ----release-----> -----RLC-----> <----release comp----- </pre> <hr/> <p>1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators.</p>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	2. Check that the Service 1 fields in UUInd is set to request, not essential.
	3. Check request of service 3 in FAR.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_20_b_UUS1_interaction_with_UUS3_requested_after_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with UUS3 requested after call set up <p>To verify that the IUT can successfully originate/complete a call with UUS1, having requested UUS3 after call set up. The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.13.3 ; 1.1.6.13.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_20_b_call_setup, B_ISUP_PTC:B_6_1_20_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_1_20_b_call_release, B_ISUP_PTC:B_6_1_20_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_1_20_b_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			2.
10		+A_access_SEND (alert_o_s_with_fie_and_uui (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_uui (1, TSV_CREF1))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_1_20_b_call_release			
14		+A_access_RECEIVE (facility_o_r (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
15		+A_access_SEND (facility_o_s (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
16		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			5.
17		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			5.
18		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
19		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_20_b_call_setup			
20		+B_SEND (IAM_s_AB_UserToUserInfo_UserToUserInd (TCV_B_cic))			1.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_RECEIVE (ACM_r_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			
22		+ringing_tone			
23		+B_RECEIVE (ANM_r_BA_User_to_user_info (TCV_B_cic))			
24		B_6_1_20_b_call_release +B_SEND (FAR_s_AB_With_fac_ind_and_UUI_explicit_non_essential_r equest_service3 (TCV_B_cic))			3.
25		+B_RECEIVE (FAA_r_AB_With_fac_ind_and_UUI_explicit_non_essential _request_service3 (TCV_B_cic))			4
26		+B_SEND(USR_m (TCV_B_cic))			5.
27		+B_RECEIVE (USR_m (TCV_B_cic))			5.
28		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
29		+B_RECEIVE (RLC_m (TCV_B_cic))			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services.</p> <p>Case b)</p> <pre> access SPA SPB <---setup(UUInf)----- <-----IAM(UUInf)----- UUS1 explicit request ----alert(UUInf)----> ----ACM(UUInf)----> UUS1 explicit response ... ringing tone ... ---connect(UUInf)--> ----ANM(UUInf)----> ... check communication ... <---facility-req----- <-----FAR----- UUS3 request ----facility-ind-----> ----FAA-----> UUS3 response <---user-info----- <-----USR----- ----user-info-----> ----USR-----> <---disc(UUInf)----- <-----REL(UUInf)----- -----RLC-----> </pre> <p>Case b)</p> <pre> access IUT SPB <---setup(UUInf)----- <-----IAM(UUInf)----- UUS1 explicit request ----alert(UUInf)----> ----ACM(UUInf)----> UUS1 explicit response ... ringing tone ... ---connect(UUInf)--> ----ANM(UUInf)----> <-----connect ack----- ... check communication ... <---facility-req----- <-----FAR----- UUS3 request ----facility-ind-----> ----FAA-----> UUS3 response <---user-info----- <-----USR----- ----user-info-----> ----USR-----> <---disc(UUInf)----- <-----REL(UUInf)----- ----release -----> ----RLC-----> <---release comp----- </pre> <hr/> <p>1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service</p>					

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Test Case Dynamic Behaviour	
Detailed Comments :	<ul style="list-style-type: none">...indicators.2. Check that the Service 1 fields in UUInd is set to request, not essential.3. The service 3 is requested in FAR.4. The service 3 is provided in FAA.5. Send/Receive user-to-user information.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_21_UUS1_interaction_with_HOLD_to_a_held_party Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with HOLD – to a held party <p>To verify that the IUT can successfully complete a call including an user-to-user information (service 1) to a held party during the clearing phase of a call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.15 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_21_call_setup, B_ISUP_PTC:B_6_1_21_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_21_call_hold, B_ISUP_PTC:B_6_1_21_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_6_1_21_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			
		A_6_1_21_call_hold			
11		+A_access_SEND (hold_o_s (1, TSV_CREF1))			Send a hold
12		+A_access_SEND (disconnect_o_s_with_uui_without_component (1, TSV_CREF1, 16))			Send a disconnect with uui
13		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_6_1_21_call_setup			
14		+B_SEND (IAM_s_AB_UserToUserInfo_UserToUserInd (TCV_B_cic))			1.
15		+B_RECEIVE (ACM_r_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			1.
		B_6_1_21_call_hold			
16		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
17		+B_RECEIVE (REL_r_BA_UserToUserInfo (TCV_B_cic))			2. Receive a call release
18		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and HOLD supplementary services.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          SPA          SPB
<-----setup----- <-----IAM-----
-----alert----->  -----ACM----->
                ... ringing tone ...
-----HOLD----->  -----CPG----->
-----disc----->  -----REL-----> UUInf present
:
```

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert----->  -----ACM----->
                ... ringing tone ...
-----HOLD----->  -----CPG----->
-----disc----->  -----REL-----> UUInf present
<-----release----- <-----RLC-----
----release comp---->
```

-
1. IAM, ACM, CPG may contain UUInf.
 2. Check that UUInf is received in the REL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_22_UUS1_interaction_with_HOLD_from_a_held_party Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with HOLD – from a held party <p>To verify that the IUT can successfully complete a call including an user-to-user information (service 1) from a held party during the clearing phase of a call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.1.6.15 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_1_22_call_setup, B_ISUP_PTC:B_6_1_22_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_6_1_22_call_hold, B_ISUP_PTC:B_6_1_22_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_6_1_22_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			
		A_6_1_22_call_hold			
11		+A_access_SEND (hold_o_s (1, TSV_CREF1))			Send a hold
12		+A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			Receive a disconnect with uui
13		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_1_22_call_setup			
14		+B_SEND (IAM_s_AB_UserToUserInfo_UserToUserInd (TCV_B_cic))			1.
15		+B_RECEIVE (ACM_r_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			2.
		B_6_1_22_call_hold			
16		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
17		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			2. Send a call release
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the remote user has subscribed to the UUS1 and HOLD supplementary services.					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
access          SPA          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----HOLD-----> -----CPG----->
<-----disc----- <-----REL----- UUInf present
-----RLC----->
```

```
access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----HOLD-----> -----CPG----->
<-----disc----- <-----REL----- UUInf present
-----release-----> -----RLC----->
<-----release comp---
```

-
1. IAM, ACM, CPG may contain UUInf.
 2. Send UUInf in the REL.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_23_New_UUS1_requested_in_CCBS_recall Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : New UUS1 requested in CCBS recall To verify that the IUT does not store any user-to-user information contained in the original call. The CCBS call (IAM) sent by the IUT should not contain any user-to-user information if no new user-to-user information is provided from the served user in response to the CCBS recall. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference3.6.13/ Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_6_1_23_busy_call, B_ISUP_PTC: B_6_1_23_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : A_6_1_23_activate_and_invoke_ccbs, B_ISUP_PTC : B_6_1_23_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : A_6_1_23_setup_ccbs_call_and_release, B_ISUP_PTC : B_6_1_23_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+ check_idle			
9		+ postamble			
10		A_6_1_23_busy_call +A_access_SEND (setup_o_s_with_fie_and_uui (1, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			
11		B_6_1_23_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (*B),REL_s_BA_Cause_17 (TCV_B_cic),RLC_anyvalue (TCV_B_cic))			1., 2.
12		A_6_1_23_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			
13		B_6_1_23_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		+ B_RECEIVE_CALL_REL_A_CIC			
15		A_6_1_23_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1,c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component
16		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1)) B_6_1_23_setup_ccbs_call_and_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			4.
18		+ B_SEND (REL_m (TCV_B_cic))			
19		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and CCBS supplementary services. <					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_1_24_UUS1_interaction_with_CCBS Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS1_E/ Purpose : UUS1 interaction with CCBS <p>To verify that the IUT is able to include user-to-user information in the CCBS call (IAM) if the served user includes user-to-user information in response to the CCBS recall.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference3.6.13/ Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_6_1_24_busy_call, B_ISUP_PTC: B_6_1_24_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : A_6_1_24_activate_and_invoke_ccbs, B_ISUP_PTC : B_6_1_24_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : A_6_1_24_setup_ccbs_call, B_ISUP_PTC : B_6_1_24_setup_ccbs_call)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+check_communication			
9		CREATE (A_ACCESS_PTC : A_6_1_24_call_release2, B_ISUP_PTC : B_6_1_24_call_release2)			
10		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
11		+ check_idle			
12		+ postamble			
13		A_6_1_24_busy_call +A_access_SEND (setup_o_s_with_fie_and_uui (1, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			1.
14		B_6_1_24_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (**B),REL_s_BA_Cause_17 (TCV_B_cic),RLC_anyvalue (TCV_B_cic))			2.
15		A_6_1_24_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB B_6_1_24_activate_and_invoke_ccbs			
16		+ B_CCBS_ACT_INV_AB			3.
17		+ B_RECEIVE_CALL_REL_A_CIC B_6_1_24_setup_ccbs_call			
18		+B_RECEIVE_cic (IAM_r_AB_ccbs_fci_isup_required_all_the_way_and_UUI (**B))			4.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd (TCV_B_cic))			
20		+ringing_tone			
21		+B_SEND (ANM_s_BA_User_to_user_info (TCV_B_cic))			
		A_6_1_24_setup_ccbs_call			
22		+A_access_SEND (setup_o_s_with_fie_and_uui (0, TSV_CREF2, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE)))			
23		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF2))			
24		+A_access_RECEIVE (alert_o_r_with_fie_and_uui (TSV_CREF2, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE)))			
25		+ringing_tone			
26		+A_access_RECEIVE (connect_o_r_with_uui (TSV_CREF2))			
		B_6_1_24_call_release2			
27		+ B_SEND_CALL_REL			
		A_6_1_24_call_release2			
28		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
29		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1_2, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2))			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that the user has subscribed to the UUS1 and CCBS supplementary services.

```

access          SPA          SPB
-----setup-----> -----IAM----->
<-----disconnect----- <-----REL-----
                        -----RLC----->
                        ... TCAP transaction ...
-----CCBS recall-----> -----IAM-----> UUInf is sent in the CCBS recall
                                                CCBS call

<----alert(UUInf)---- <----ACM(UUInf)----
                        ... ringing tone ...
<--connect(UUInf)-- <--ANM(UUInf)----
                        ... check communication ...
<-----disc----- <-----REL-----
:

```

```

access          IUT          SPB
-----setup-----> -----IAM----->
<----call proceeding----
<-----disconnect----- <-----REL-----
                        -----RLC----->
                        ... TCAP transaction ...

```

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----CCBS recall---->  -----IAM-----> UUInf is sent in the CCBS recall  
                                         CCBS call  
  
<----alert(UUInf)----<----ACM(UUInf)-----  
                        ... ringing tone ...  
<---connect(UUInf)---<---ANM(UUInf)-----  
                        ... check communication ...  
<-----disc-----<-----REL-----  
<-----release -----<-----RLC----->  
---release comp---->
```

-
1. Set up a call to busy user at SPB.
 2. User at SPB is found busy.
 3. Check that user at SPB becomes free by using the RemoteUserFree CCBS ASE operation.
 4. Check Indication CCBS call" in the IAM. Check that UUInf is received in the IAM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_1_32_octets_usertouser_information Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : 32 octets user-to-user information <p>To verify that the IUT can successfully initiate a call having 32 octets of user-to-user information in the USR messages during call set up.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.2.2.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_1_call_setup, B_ISUP_PTC:B_6_2_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_1_call_release, B_ISUP_PTC:B_6_2_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_2_1_call_setup +A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
16		A_6_2_1_call_release +A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
18		B_6_2_1_call_setup +B_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service2 ('*B))			service 2 explicit request, non-essential
19		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			service 2 explicit response, provided
20		+ringing_tone			
21		+B_RECEIVE (USR_m_with_32_octet (TCV_B_cic))			2.
22		+B_SEND (USR_m_with_32_octet (TCV_B_cic))			
23		+B_SEND (ANM_m (TCV_B_cic))			
24		B_6_2_1_call_release +B_SEND_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments : Pre-test conditions
 Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.

```

access          SPA          SPB
-----setup-----> -----IAM-----> UUS2 explicit request
<-----alert----- <-----ACM----- UUS2 response
... ringing tone ...
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
<-----connect----- <-----ANM-----
... check communication ...
<-----disc----- <-----REL-----
                      -----RLC----->
  
```

```

access          IUT          SPB
-----setup-----> -----IAM-----> UUS2 explicit request
<----call proceeding----
<-----alert----- <-----ACM----- UUS2 response
... ringing tone ...
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
<-----connect----- <-----ANM-----
... check communication ...
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<----release comp-----
  
```

-
1. Set up a call from UNI at SPA to SPB with user-to-user service 2 request.
 2. Check that the user-to-user information field in the USR contains 32 octets.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_2_a_UUS2_explicit_nonessential__request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit non-essential – request <p>To verify that the IUT can successfully originate/transit a call with an UUS2 explicit non-essential request, having the user-to-user indicators in the IAM set to "request, not essential".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.1.1.2 ; 1.2.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_2_a_call_setup, B_ISUP_PTC:B_6_2_2_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_2_a_call_release, B_ISUP_PTC:B_6_2_2_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_2_a_call_setup			
9		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			1., 2.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_6_2_2_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_2_a_call_setup			
18		+B_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service2 (*B))			service 2 explicit request, non-essential
19		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			service 2 explicit response, provided
20		+ringing_tone			
21		+B_RECEIVE (USR_m (TCV_B_cic))			3.
22		+B_SEND (USR_m (TCV_B_cic))			
23		+B_SEND (ANM_m (TCV_B_cic))			4.
		B_6_2_2_a_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> <p>Case a)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> UUS2 explicit request <-----alert-----<-----ACM----- UUS2 response ... ringing tone ... -----user info-----> -----USR-----> <---user info-----<-----USR----- <-----connect-----<-----ANM----- ... check communication ... <-----disc-----<-----REL----- -----RLC-----> </pre> <p>Case a)</p> <pre> access IUT SPB -----setup-----> -----IAM-----> UUS2 explicit request <---call proceeding--- <-----alert-----<-----ACM----- UUS2 response ... ringing tone ... -----user info-----> -----USR-----> <---user info-----<-----USR----- <-----connect-----<-----ANM----- ... check communication ... <-----disc-----<-----REL----- -----release-----> -----RLC-----> <---release comp----- </pre> <ol style="list-style-type: none"> 1. Set up a call from UNI at SPA to SPB with user-to-user service 2 request. 2. The Service 2 field in the UUInd is set to request, not essential. 3. Receive user-to-user information. 4. Send user-to-user information. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_2_b_IUT_transits_a_call_for_UUS2_explicit_non_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : To verify that the IUT can successfully originate/transit a call with an UUS2 explicit non-essential request, having the user to user indicators in the IAM set to "Request not essential" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.2.5.2.1.1.2 ; 1.2.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UUI_explicit_non_essential_request_service2 (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_r_BA_UUI_explicit_response_service2_provided (TCV_A_cic))			
11		+A_SEND(USR_m (TCV_A_cic))			
12		+A_RECEIVE (USR_m(TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_non_essential_request_service2 ("**B))		2	
16		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			
17		+B_RECEIVE (USR_m (TCV_B_cic))			
18		+B_SEND (USR_m(TCV_B_cic))			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> UUS2 explicit request <-----ACM----- <-----ACM----- UUS2 response ... ringing tone ... -----USR-----> -----USR-----> <-----USR----- <-----USR----- <-----ANM----- <-----ANM-----					

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Test Case Dynamic Behaviour

Detailed Comments : ...

... check communication ...

```
<---REL-----<---REL-----
-----RLC----->-----RLC----->
```

Implementation:

SPA	IUT	SPB
----IAM----->	----IAM----->	UUS2 explicit request
<---ACM-----	<---ACM-----	UUS2 response

... ringing tone ...

```
-----USR----->-----USR----->
<-----USR-----<-----USR-----
<-----ANM-----<-----ANM-----
```

... check communication ...

```
<---REL-----<---REL-----
-----RLC----->-----RLC----->
```

1. Set up a call from UNI at SPC to SPB with user-to-user service 2 request
2. Check that the Service 2 field in the UUInd is set to 'request, non essential'
3. Receive user to user information .
4. Send user to user information..

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_3_UUS2_explicit_nonessential__acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit non-essential – acceptance <p>To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, having the user-to-user indicators parameter in the ACM or CPG set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.1.1.2 ; 1.2.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_3_call_setup, B_ISUP_PTC:B_6_2_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_3_call_release, B_ISUP_PTC:B_6_2_3_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_3_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_2_3_call_release			
16		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_3_call_setup			
18		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service2 (TCV_B_cic))			1., 2. service 2 explicit request, non-essential
19		+B_RECEIVE (ACM_r_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			service 2 explicit response, provided
20		+ringing_tone			
21		+B_SEND (USR_m (TCV_B_cic))			3.
22		+B_RECEIVE (USR_m (TCV_B_cic))			4.
23		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_6_2_3_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> <pre> access SPA SPB <-----setup----- <-----IAM----- UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ... <-----user info---- <-----USR----- -----user info----> -----USR-----> -----connect----> -----ANM-----> ... check communication ... <-----disc----- <-----REL----- -----RLC-----> access IUT SPB <-----setup----- <-----IAM----- UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ... <-----user info---- <-----USR----- -----user info----> -----USR-----> -----connect----> -----ANM-----> <-----connect ack--- ... check communication ... <-----disc----- <-----REL----- -----release -----> -----RLC-----> <---release comp----- </pre> <hr/> <ol style="list-style-type: none"> 1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request. 2. The Service 2 field in the UUInd is set to request, not essential. 3. Check the response Service provided in the ACM or in CPG. 4. Send user-to-user information. 5. Receive user-to-user information. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_4_a_UUS2_explicit_nonessential__rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit non-essential – rejection <p>To verify that the UUS2 service can be rejected and the user-to-user indicators in the ACM or CPG are set to "service 2 not provided". Note: The network or the user cannot support UUS2.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.5.2.2 ; 1.2.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_4_a_call_setup, B_ISUP_PTC:B_6_2_4_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_4_a_call_release, B_ISUP_PTC:B_6_2_4_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_4_a_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie (1, TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_2_4_a_call_release			
14		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_4_a_call_setup			
16		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service2 (TCV_B_cic))			1., 2. service 2 explicit request, non-essential
17		+B_RECEIVE (ACM_r_AB_UUI_service2_response_not_provided (TCV_B_cic))			3. service 2 explicit response, not provided
18		+ringing_tone			
19		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_6_2_4_a_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : access SPA SPB <-----setup-----<-----IAM-----> UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ...					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

-----conn-----> -----ANM----->
... check communication ...
<-----disc----- <-----REL-----
-----RLC----->

access          SPA          SPB
<-----setup----- <-----IAM----- UUS2 explicit request
-----alert-----> -----ACM-----> UUS2 explicit response
... ringing tone ...
-----conn-----> -----ANM----->
<-----connect ack--
... check communication ...
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<---release comp-----

```

-
1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.
 2. The Service 2 field in the UUInd is set to 'request, not essential'.
 3. Check the response 'Service not provided' in the ACM or in CPG.

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

... ringing tone ...
-----conn-----> -----ANM----->
... check communication ...
<-----disc-----<-----REL-----
          -----RLC----->

access          SPA          SPB

<-----setup-----<-----IAM----- UUS2 explicit request
-----alert-----> -----CPG-----> UUS2 explicit response
... ringing tone ...
-----conn-----> -----ANM----->
<-----connect ack--
          ... check communication ...
<-----disc-----<-----REL-----
-----release -----> -----RLC----->
<---release comp-----

```

-
1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.
 2. The Service 2 field in the UUInd is set to 'request, not essential'.
 3. Check the response 'Service not provided' in the ACM or in CPG.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_5_UUS2_explicit_nonessential__rejection_no_indication					
Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/					
Purpose : UUS2 explicit non–essential – rejection no indication					
To verify that the IUT can successfully complete a call with an UUS2 explicit non–essential request, if no indication is provided in the backward direction. Note: The network or the user cannot support UUS2.					
Configuration : MTC_and_ISUP_and_access_PTCs					
Default :					
Comments : ISUP 97 reference1.2.5.2.5.2.3 ; 1.2.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ACCESS_PTC:A_6_2_5_call_setup, B_ISUP_PTC:B_6_2_5_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_5_call_release, B_ISUP_PTC:B_6_2_5_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_6_2_5_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie (1, TSV_CREF1, c_UUS_return_result (TCV_inv_id)))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
		A_6_2_5_call_release			
13		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
14		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_5_call_setup			
15		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service2 (TCV_B_cic))			1., 2. service 2 explicit request, non–essential
16		+B_RECEIVE (ACM_r_BA_UserToUserInd_Service1NoInformation (TCV_B_cic))			3. explicit response, 'no information'
17		+ringing_tone			
18		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_6_2_5_call_release			
19		+B_SEND_CALL_REL			
Detailed Comments :					
access SPA SPB					
<-----setup-----<-----IAM-----> UUS2 explicit request					
-----alert-----> -----ACM-----> UUS2 explicit response					
... ringing tone ...					
-----conn-----> -----ANM----->					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

... check communication ...
<-----disc-----> <-----REL----->
                        -----RLC----->

access                IUT                SPB
<-----setup-----> <-----IAM-----> UUS2 explicit request
-----alert-----> -----ACM-----> UUS2 explicit response
                        ... ringing tone ...
-----conn-----> -----ANM----->
<-----connect ack--
                        ... check communication ...
<-----disc-----> <-----REL----->
-----release -----> -----RLC----->
<---release comp-----

```

-
1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.
 2. The Service 2 field in the UUInd is set to 'request, not essential'.
 3. Check that the service 2 field is set to 'no information' in the ACM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_6_a_UUS2_explicit_essential__request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit essential – request To verify that the IUT can successfully originate/transit a call having an UUS2 explicit essential request, having the user-to-user indicators set to "request, essential" and the ISDN user part preference indicator in the IAM set to "ISUP required". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.1.1.2 ; 1.2.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_6_a_call_setup, B_ISUP_PTC:B_6_2_6_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_6_a_call_release, B_ISUP_PTC:B_6_2_6_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_6_a_call_setup			
9		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, FALSE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, FALSE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_6_2_6_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_6_a_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_service2_and_IS UP_required ("*B))			2.
19		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			
20		+ringing_tone			
21		+B_RECEIVE (USR_m (TCV_B_cic))			3.
22		+B_SEND (USR_m (TCV_B_cic))			4.
23		+B_SEND (ANM_m (TCV_B_cic))			
		B_6_2_6_a_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> <p>Case a)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> UUS2 explicit request <-----alert----- <-----ACM----- UUS2 response ... ringing tone ... -----user info-----> -----USR-----> <-----user info----- <-----USR----- <-----connect----- <-----ANM----- ... check communication ... <-----disc----- <-----REL----- -----RLC-----> </pre> <p>Case a)</p> <pre> access IUT SPB -----setup-----> -----IAM-----> UUS2 explicit request <---call proceeding--- <-----alert----- <-----ACM----- UUS2 response ... ringing tone ... -----user info-----> -----USR-----> <-----user info----- <-----USR----- <-----connect----- <-----ANM----- ... check communication ... <-----disc----- <-----REL----- -----release -----> -----RLC-----> <---release comp----- </pre> <hr/> <p>1. Set up a call from UNI at SPA to SPB with user-to-user service 2 request. 2. Check the Service 2 field in the UUInd is set to request, essential in the IAM. 3. Receive user-to-user information. 4. Send user-to-user information.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_6_b_IUT_transits_a_call_for_UUS2_explicit_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : To verify that the IUT can successfully originate/transit a call with an UUS2 explicit essential request, having the user to user indicators in the IAM set to "Request essential" and the ISDN user part preference indicator in the IAM set to "ISUP required" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.2.5.2.1.1.2 ; 1.2.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UUI_explicit_essential_request_service2_and_ISUP_required (TCV_A_cic))		1	
10		+A_RECEIVE (ACM_r_BA_UUI_explicit_response_service2_provided (TCV_A_cic))			
11		+A_SEND(USR_m (TCV_A_cic))			
12		+A_RECEIVE (USR_m (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_service2_and_ISUP_required ("B")		2	
16		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			
17		+B_RECEIVE (USR_m (TCV_B_cic))			
18		+B_SEND (USR_m (TCV_B_cic))			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> UUS2 explicit request <----ACM----- <----ACM----- UUS2 response ... ringing tone ... -----USR-----> -----USR-----> <-----USR----- <-----USR-----					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```
<-----ANM----- <-----ANM-----
... check communication ...
```

```
<---REL----- <---REL-----
-----RLC-----> -----RLC----->
```

Implementation:

```
SPA                IUT                SPB
---IAM----->  ---IAM-----> UUS2 explicit request
<---ACM----- <---ACM----- UUS2 response
```

... ringing tone ...

```
-----USR-----> -----USR----->
<-----USR----- <-----USR-----
<-----ANM----- <-----ANM-----
... check communication ...
```

```
<---REL----- <---REL-----
-----RLC-----> -----RLC----->
```

1. Set up a call from UNI at SPC to SPB with user-to-user service 2 request
2. Check that the Service 2 field in the UUInd is set to 'request essential' in the IAM.
3. Receive user to user information .
4. Send user to user information..

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_7_UUS2_explicit_essential__acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit essential – acceptance <p>To verify that the IUT can successfully complete a call having an UUS2 explicit essential request having the user-to-user indicators parameter in the ACM or CPG set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.1.1.2 ; 1.2.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_7_call_setup, B_ISUP_PTC:B_6_2_7_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_7_call_release, B_ISUP_PTC:B_6_2_7_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_7_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, FALSE)))			
10		+A_access_SEND (alert_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, FALSE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_2_7_call_release			
16		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_7_call_setup			
18		+B_SEND (IAM_s_BA_UUI_explicit_essential_request_service2_and_IS UP_required (TCV_B_cic))			1., 2. service 2 explicit request, essential
19		+B_RECEIVE (ACM_r_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			3. service 2 explicit response, provided
20		+ringing_tone			
21		+B_SEND (USR_m (TCV_B_cic))			4.
22		+B_RECEIVE (USR_m (TCV_B_cic))			5.
23		+B_RECEIVE (ANM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		B_6_2_7_call_release +B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> <pre> access SPA SPB <-----setup----- <-----IAM----- UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ... <----user info----- <-----USR----- -----user info-----> -----USR-----> -----connect-----> -----ANM-----> ... check communication ... <-----disc----- <-----REL----- -----RLC-----> access IUT SPB <-----setup----- <-----IAM----- UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ... <----user info----- <-----USR----- -----user info-----> -----USR-----> -----connect-----> -----ANM-----> <-----connect ack-- ... check communication ... <-----disc----- <-----REL----- -----release -----> -----RLC-----> <---release comp----- </pre> <ol style="list-style-type: none"> 1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request. 2. The Service 2 field in the UIInd is set to request, essential. 3. Check the response Service provided in the ACM or CPG. 4. Send user-to-user information. 5. Receive user-to-user information. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_8_a_UUS2_explicit_essential__rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit essential – rejection <p>To verify that the service can be rejected with a REL with the Cause value 29 "facility rejected" or 69 "requested facility not implemented" or value 88 "incompatible destination", all with diagnostics (user-to-user indicators name).</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.5.2.1 ; 1.2.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_8_a_call, B_ISUP_PTC:B_6_2_8_a_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_2_8_a_call +A_access_RECEIVE (setup_o_r_with_fie (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, FALSE)))			
7		+A_access_SEND (disconnect_without_component(1, TSV_CREF1, 29))			
8		+A_access_RECEIVE_CALL_REL_DEFAULT			
9		B_6_2_8_a_call +B_SEND (IAM_s_BA_UUI_explicit_essential_request_service2_and_IS UP_required (TCV_B_cic))			1. service 2 explicit request, essential
10		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			2.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : <pre> access SPA SPB <-----setup-----<-----IAM----- UUS2 explicit request -----disc-----> -----REL-----> <-----RLC----- access SPA SPB <-----setup-----<-----IAM----- UUS2 explicit request -----disc-----> -----REL-----> <-----release-----<-----RLC----- -----release comp----> </pre> <hr/> 1. Set up a call UNI at SPB to SPA with user-to-user service 2 request. 2. The call should be released with cause #29 or #69 or #88.					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_9_a_UUS2_explicit_essential__implicit_rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit essential – implicit rejection <p>To verify that the service can be rejected if no indication is received (no user-to-user indicators parameter) in the first backward message (implicit rejection of service 2). Note: The network does not understand the service 2 request or the user cannot support UUS2.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.2.1 ; 1.2.5.2.2-5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_9_a_call_setup, B_ISUP_PTC:B_6_2_9_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_6_2_9_a_call_release, B_ISUP_PTC:B_6_2_9_a_call_release)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
		A_6_2_9_a_call_setup			
8		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, FALSE)))			
9		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
		A_6_2_9_a_call_release			
10		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
11		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_9_a_call_setup			
12		+B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_service2_and_IS UP_required (**B))			
13		+B_SEND (ACM_m (TCV_B_cic))			
		B_6_2_9_a_call_release			
14		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.					
<p>Case a)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> UUS2 explicit request <-----ACM----- <-----disc----- <-----REL-----> <-----RLC----- </pre> <p>Case a)</p> <pre> access IUT SPB -----setup-----> -----IAM-----> UUS2 explicit request </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<---call proceeding--- <-----ACM-----
<-----disc----- <-----REL----->
-----release -----> <-----RLC-----
<---release comp---

-
1. Set up a call from UNI at SPA to SPB with user-to-user service 2 request.
 2. Check the Service 2 field in the UUInd is set to request, essential in the IAM.
 3. Check REL because there is no UUInd in the IAM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_9_b_UUS2_explicit_essential__implicit_rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 explicit essential – implicit rejection <p>To verify that the service can be rejected if no indication is received (no user-to-user indicators parameter) in the first backward message (implicit rejection of service 2). Note: The network does not understand the service 2 request or the user cannot support UUS2.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.5.2.2.1 ; 1.2.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_9_b_call_setup, B_ISUP_PTC:B_6_2_9_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_6_2_9_b_call_release, B_ISUP_PTC:B_6_2_9_b_call_release)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
8		A_6_2_9_b_call_setup +A_access_RECEIVE (setup_o_r_with_fie (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, FALSE))) A_6_2_9_b_call_release			
9		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
10		+A_access_SEND_CALL_REL_DEFAULT			
11		B_6_2_9_b_call_setup +B_SEND (IAM_s_BA_UUI_explicit_essential_request_service2_and_IS UP_required (TCV_B_cic))			1., 2. service 2 explicit request, essential
12		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_6_2_9_b_call_release			
13		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service. <div style="text-align: center;"> Case b) access SPA SPB <-----setup-----<-----IAM-----UUS2 explicit request -----ACM-----> <-----disc-----<-----REL-----> -----RLC-----> </div> <div style="text-align: center;"> Case b) access IUT SPB </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----setup----- <-----IAM----- UUS2 explicit request
                        -----ACM----->
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<---release comp---
```

-
1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.
 2. The Service 2 field in the UUInd is set to request, essential in the IAM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_10_Discard_the_usertouser_information_if_more_than_two_messages_received_during_a_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : Discard the user-to-user information if more than two messages received during a call set up <p>To verify that the IUT discards the user-to-user service information in the additional message if more than two messages are received during the call set up (in each direction).</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.2.5.2.1.1.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_10_call_setup, B_ISUP_PTC:B_6_2_10_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_10_call_release, B_ISUP_PTC:B_6_2_10_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_10_call_setup			
9		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
16		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
17		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
18		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_6_2_10_call_release			
19		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
20		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_10_call_setup			
21		+B_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service2 (**B))			2. service 2 explicit request, non-essential

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_SEND (ACM_s_BA_UII_explicit_response_service2_provided (TCV_B_cic))			service 2 explicit response, provided
23		+ringing_tone			
24		+B_RECEIVE (USR_m (TCV_B_cic))			3.
25		+B_SEND (USR_m (TCV_B_cic))			4.
26		+B_RECEIVE (USR_m (TCV_B_cic))			3.
27		+B_SEND (USR_m (TCV_B_cic))			4.
28		+B_SEND (ANM_m (TCV_B_cic))			
29		B_6_2_10_call_release +B_SEND_CALL_REL			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.

```

access          SPA          SPB
-----setup-----> -----IAM-----> UUS2 explicit request
<-----alert----- <-----ACM----- UUS2 response
... ringing tone ...
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
-----user info-----> no USR
<-----connect----- <-----ANM-----
... check communication ...
<-----disc----- <-----REL-----
-----RLC----->

```

```

access          IUT          SPB
-----setup-----> -----IAM-----> UUS2 explicit request
<----call proceeding---
<-----alert----- <-----ACM----- UUS2 response
... ringing tone ...
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
-----user info-----> no USR
<-----connect----- <-----ANM-----
... check communication ...
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<----release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user service 2 request.
2. Check the Service 2 field in the UIInd is set to "request, not essential" in the IAM.
3. Check the receipt of two USR during call set up.
4. Send user-to-user information.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_11_Pass_on_one_of_the_USR__received_just_after_ANM Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : Pass on one of the USR received just after ANM <p>To verify that the IUT can successfully pass on one of the USR messages received just after the answer state has been reached.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.2.5.2.1.1.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_11_call_setup, B_ISUP_PTC:B_6_2_11_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_11_call_release, B_ISUP_PTC:B_6_2_11_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_2_11_call_setup +A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			3.
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
16		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			4.
17		A_6_2_11_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
18		+A_access_SEND_CALL_REL_DEFAULT			
19		B_6_2_11_call_setup +B_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service2 (*B))			2. service 2 explicit request, non-essential
20		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			service 2 explicit response, provided
21		+ringing_tone			
22		+B_RECEIVE (USR_m (TCV_B_cic))			3.
23		+B_SEND (USR_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND (ANM_m (TCV_B_cic))			5.
25		+B_RECEIVE (USR_m (TCV_B_cic))			
		B_6_2_11_call_release			
26		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.					
<div>accessSPA </div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_12_Non_essential_service_rejected_in_UUS2 Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : To verify that the UUS2 explicit non essential service can be rejected and the user to user indicators in the ACM or CON are set to "Service2 Not Provided". Note: The user to user service is rejected because the IntermE received a CFN from the succeeding network (see Note 2 Table 1–2) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: ISUP v2 reference 1.2.5.2.2.2 ; Table 1–2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service2 (**B))			
10		+A_SEND (CFN_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_A_cic))			
11		+A_SEND (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service2 (TCV_B_cic))			1,2
14		+B_RECEIVE (ACM_r_AB_UUI_service2_response_not_provided (TCV_B_cic))			3
15		+B_RECEIVE (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <----IAM----- <----IAM----- UUS2 explicit request -----CFN-----> -----ACM-----> UUS2 explicit responseringing tone..... -----CON-----> -----ANM-----> <-----REL----- <-----REL----- -----RLC-----> Implementation: SPA IUT SPB <----IAM----- <----IAM----- UUS2 explicit request					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----CFN-----> -----ACM-----> UUS2 explicit response
.....ringing tone.....
-----CON-----> -----ANM----->
<-----REL----- <-----REL-----
                -----RLC----->
```

1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.
2. The service 2 field in UUInd is set to "Request not essential".
3. Check the response "service not provided" in the ACM or CON.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_2_13_Deliver_usertouser_information_in_USR_after_ANM Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : Deliver user-to-user information in USR after ANM <p>To verify that the IUT can successfully deliver the user-to-user information in the USR message to the called user after the answer state has been reached.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.2.2.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_13_call_setup, B_ISUP_PTC:B_6_2_13_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_13_call_release, B_ISUP_PTC:B_6_2_13_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_13_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
16		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
		A_6_2_13_call_release			
17		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
18		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_13_call_setup			
19		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service2 (TCV_B_cic))			1., 2. service 2 explicit request, non-essential
20		+ringing_tone			
21		+B_RECEIVE (ACM_r_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			3. service 2 explicit response, provided
22		+ringing_tone			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+B_SEND (USR_m (TCV_B_cic))			4.
24		+B_RECEIVE (USR_m (TCV_B_cic))			5.
25		+B_RECEIVE (ANM_m (TCV_B_cic))			
26		+B_SEND (USR_m (TCV_B_cic))			6.
		B_6_2_13_call_release			
27		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.					
<pre> access SPA SPB <-----setup----- <-----IAM----- UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> -----connect-----> -----ANM-----> <-----user info----- <-----USR----- ... check communication ... <-----disc----- <-----REL----- -----RLC-----> access IUT SPB <-----setup----- <-----IAM----- UUS2 explicit request -----alert-----> -----ACM-----> UUS2 explicit response ... ringing tone ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> -----connect-----> -----ANM-----> <-----connect ack-- <-----user info----- <-----USR----- ... check communication ... <-----disc----- <-----REL----- -----release -----> -----RLC-----> <---release comp----- </pre>					
<ol style="list-style-type: none"> 1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request. 2. The Service 2 field in the UUInd is set to request, not essential. 3. Check the response Service provided in the ACM. 4. Send user-to-user information. 5. Receive user-to-user information. 6. Send one user-to-user information after ANM. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_14_a_UUS2_interaction_with_UUS1_or_UUS3_unsuccessful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 interaction with UUS1 (or UUS3) – unsuccessful request To verify that the services can be rejected with a REL with Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name), if more services are requested, one of them is essential and it cannot be provided.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.6.13.1 ; 1.2.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_14_a_call, B_ISUP_PTC:B_6_2_14_a_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_2_14_a_call +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
7		+A_access_SEND (disconnect_without_component (1, TSV_CREF1, 29))			2.
8		+A_access_RECEIVE_CALL_REL_DEFAULT B_6_2_14_a_call			
9		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1. S1, S2, S3 explicit request
10		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services. <div style="display: flex; justify-content: space-between;"> <div> Case a) access <----setup(UUInf)-----> -----disc-----> </div> <div> SPA <-----IAM(UUInf)-----> -----REL-----> <-----RLC-----> </div> <div> SPB UUS1, 2, 3 explicit request </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> Case a) access <----setup(UUInf)-----> -----disc-----> </div> <div> IUT <-----IAM(UUInf)-----> -----REL-----> </div> <div> SPB UUS1, 2, 3 explicit request </div> </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<-----release -----<-----RLC-----
----release comp---->

1. Set up a call UNI at SPB to SPA with user-to-user information and user-to-user service 2, 3 request.
2. The call should be released with cause #29 or #69, because the service 2 cannot be provided.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_14_b_UUS2_interaction_with_UUS1_or_UUS3_unsuccessful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 interaction with UUS1 (or UUS3) – unsuccessful request To verify that the services can be rejected with a REL with Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name), if more services are requested, one of them is essential and it cannot be provided.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.6.13.1 ; 1.2.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_14_b_call, B_ISUP_PTC:B_6_2_14_b_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_2_14_b_call +A_access_SEND (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
7		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
8		+A_access_RECEIVE (disconnect_without_component (1, TSV_CREF1, 29))			
9		+A_access_SEND_CALL_REL_DEFAULT			
10		B_6_2_14_b_call +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd_s1_s2_s3 (**B))			S1, S2, S3 explicit request
11		+B_SEND (REL_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			2.
12		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services. <div style="text-align: center;"> Case b) access SPA SPB ----setup(UUInf)----> ----IAM(UUInf)----> UUS1, 2, 3 explicit request <-----disc----- <-----REL----- -----RLC-----> </div> <div style="text-align: center;"> Case b) access IUT SPB ----setup(UUInf)----> ----IAM(UUInf)----> UUS1, 2, 3 explicit request </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<---call proceeding---  
<-----disc-----<-----REL-----  
-----release -----> -----RLC----->  
<---release comp-----
```

-
1. Set up a call UNI at SPA to SPB with user-to-user information and user-to-user service 2, 3 request.
 2. The call should be released with cause #29 or #69, because the service 2 cannot be provided.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_15_a_UUS2_interaction_with_UUS1_or_UUS3_independent_acceptance_or_rejection_of_the_services Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 interaction with UUS1 (or UUS3) – independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, having the user-to-user indicators parameter set to "service provided" in the ACM or CPG. At the same time the UUS1 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 1 (or 3) not provided". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.6.13.1 ; 1.2.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_15_a_call_setup, B_ISUP_PTC:B_6_2_15_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_15_a_call_release, B_ISUP_PTC:B_6_2_15_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_2_15_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui_s1_s2 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_o_r_with_uui_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
16		A_6_2_15_a_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT B_6_2_15_a_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd_s1_s2_s3 (**B))			2. S1, S2, S3 explicit request
19		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
20		+ringing_tone			
21		+B_RECEIVE (USR_m (TCV_B_cic))			3.
22		+B_SEND (USR_m (TCV_B_cic))			3.
23		+B_SEND (ANM_s_BA_User_to_user_info_s3_not_provided (TCV_B_cic))			S3 explicit response
24		B_6_2_15_a_call_release +B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
25		+B_RECEIVE (RLC_m (TCV_B_cic))			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.

Case a)

```

access          SPA          SPB
----setup(UUInf)---->  ----IAM(UUInf)----> UUS1, 2, 3 explicit request
<---alert(UUInf)----- <---ACM(UUInf)----- UUS1, 2 explicit response
... ringing tone ...
----user info----->  -----USR-----
<---user info----- <---USR-----
<---connect(UUInf)----- <---ANM(UUInf)----- UUS 3 explicit response
... check communication ...
<---disc(UUInf)----- <---REL(UUInf)-----
                      -----RLC----->

```

Case a)

```

access          IUT          SPB
----setup(UUInf)---->  ----IAM(UUInf)----> UUS1, 2, 3 explicit request
<---call proceeding---
<---alert(UUInf)----- <---ACM(UUInf)----- UUS1, 2 explicit response
... ringing tone ...
----user info----->  -----USR-----
<---user info----- <---USR-----
<---connect(UUInf)----- <---ANM(UUInf)----- UUS 3 explicit response
... check communication ...
<---disc(UUInf)----- <---REL(UUInf)-----
                      -----RLC----->
<---release comp-----

```

- Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service 2, 3 request.
- Check that the Service 1, 2, 3 fields in UUInd are set each to request, not essential.
- Send/Receive user-to-user information (support of service 2).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_15_b_UUS2_interaction_with_UUS1_or_UUS3__independent_acceptance_or_rejection_of_the_services Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 interaction with UUS1 (or UUS3) – independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, having the user-to-user indicators parameter set to "service provided" in the ACM or CPG. At the same time the UUS1 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 1 (or 3) not provided".					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.6.13.1 ; 1.2.6.13.3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_15_b_call_setup, B_ISUP_PTC:B_6_2_15_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_15_b_call_release, B_ISUP_PTC:B_6_2_15_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_2_15_b_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui_s1_s2 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_SEND (connect_o_s_with_uui_s3 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
16		A_6_2_15_b_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT B_6_2_15_b_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1., 2. S1, S2, S3 explicit request
19		+B_RECEIVE (ACM_r_AB_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
20		+ringing_tone			
21		+B_SEND (USR_m (TCV_B_cic))			3.
22		+B_RECEIVE (USR_m (TCV_B_cic))			3.
23		+B_RECEIVE (ANM_r_AB_User_to_user_info_s3_not_provided (TCV_B_cic))			S3 explicit response
		B_6_2_15_b_call_release			
24		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
25		+B_RECEIVE (RLC_m (TCV_B_cic))			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> <p>Case b)</p> <pre> access IUT SPB <----setup(UUInf)----<----IAM(UUInf)----- UUS1, 2, 3 explicit request -----alert(UUInf)----> -----ACM(UUInf)-----> UUS1, 2 explicit response ... ringing tone ... <-----user info-----<-----USR----- -----user info-----> -----USR-----> ---connect(UUInf)---> -----ANM(UUInf)-----> UUS 3 explicit response ... check communication ... <----disc(UUInf)-----<----REL(UUInf)----- -----RLC-----> </pre> <p>Case b)</p> <pre> access SPA SPB <----setup(UUInf)----<----IAM(UUInf)----- UUS1, 2, 3 explicit request -----alert(UUInf)----> -----ACM(UUInf)-----> UUS1, 2 explicit response ... ringing tone ... <-----user info-----<-----USR----- -----user info-----> -----USR-----> ---connect(UUInf)---> -----ANM(UUInf)-----> UUS 3 explicit response <-----connect ack----- ... check communication ... <----disc(UUInf)-----<----REL(UUInf)----- -----release -----> -----RLC-----> <---release comp----- </pre> <p>1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service 2, 3 request. 2. The Service 1, 2, 3 fields in UUInd are set each to request, not essential. 3. Send/Receive user-to-user information (support of Service 2). Note: Repeat the test case by setting the response of service 1 or 3 requests in CPG, ANM, REL or CON.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_16_a_UUS2_interaction_with_UUS3_requested_after_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 interaction with UUS3 requested after call set up To verify that the IUT can successfully originate/complete a call with UUS2 and UUS3 service requested after call set up. The Service 2 field of the user-to-user indicators in the FAR, FAA or FRJ is then set to "no information". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.6.13.3 ; 1.2.6.13.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_2_16_a_call_setup, B_ISUP_PTC:B_6_2_16_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_16_a_call_release, B_ISUP_PTC:B_6_2_16_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_2_16_a_call_setup			
9		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_6_2_16_a_call_release			
16		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
17		+A_access_RECEIVE (facility_o_r (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
18		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
19		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
20		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
21		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_16_a_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service2 (*B))			2.
23		+B_SEND (ACM_s_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			
24		+ringing_tone			
25		+B_RECEIVE (USR_m (TCV_B_cic))			3.
26		+B_SEND (USR_m (TCV_B_cic))			3.
27		+B_SEND (ANM_m (TCV_B_cic))			
		B_6_2_16_a_call_release			
28		+B_RECEIVE (FAR_r_AB_With_fac_ind_and_UUI_explicit_non_essential_r equest_service3 (TCV_B_cic))			4.
29		+B_SEND (FAA_s_BA_With_fac_ind_and_UUI_explicit_non_essential _request_service3 (TCV_B_cic))			
30		+B_RECEIVE (USR_m (TCV_B_cic))			5.
31		+B_SEND (USR_m (TCV_B_cic))			5.
32		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS2 and UUS3 supplementary services.</p> <p>Case a)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> UUS2 explicit request <-----alert-----<-----ACM-----< UUS2 explicit response ... ringing tone ... -----user info-----> -----USR----- <-----user info-----<-----USR----- <-----connect-----<-----ANM----- ... check communication ... ----facility-req-----> -----FAR-----> UUS3 request <----facility-ind-----<-----FAA-----< UUS3 response -----user info-----> -----USR----- <-----user info-----<-----USR----- <-----disc-----<-----REL----- -----RLC-----> </pre> <p>Case a)</p> <pre> access IUT SPB -----setup-----> -----IAM-----> UUS2 explicit request <----call proceeding---- <-----alert-----<-----ACM-----< UUS2 explicit response ... ringing tone ... -----user info-----> -----USR----- <-----user info-----<-----USR----- <-----connect-----<-----ANM----- ... check communication ... ----facility-req-----> -----FAR-----> UUS3 request <----facility-ind-----<-----FAA-----< UUS3 response -----user info-----> -----USR----- </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<-----user info----- <-----USR-----
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<---release comp-----

-
1. Set up a call from UNI at SPA to SPB with user-to-user service 2 request.
 2. Check that the Service 2 fields in UUInd is set to request, not essential.
 3. Send/Receive user-to-user information (support of service 2)
 4. Check request of service 3 in FAR.
 5. Send/Receive user-to-user information (support of service 3)

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_2_16_b_UUS2_interaction_with_UUS3_requested_after_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS2/ Purpose : UUS2 interaction with UUS3 requested after call set up <p>To verify that the IUT can successfully originate/complete a call with UUS2 and UUS3 service requested after call set up. The Service 2 field of the user-to-user indicators in the FAR, FAA or FRJ is then set to "no information".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.2.6.13.3 ; 1.2.6.13.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ACCESS_PTC:A_6_2_16_b_call_setup, B_ISUP_PTC:B_6_2_16_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_2_16_b_call_release, B_ISUP_PTC:B_6_2_16_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_6_2_16_b_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_SEND (connect_o_s (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_2_16_b_call_release			
16		+A_access_RECEIVE (facility_o_r (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
17		+A_access_SEND (facility_o_s (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
18		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
19		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
20		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
21		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_2_16_b_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service2 (TCV_B_cic))			1., 2. service 2 explicit request, non-essential
23		+B_RECEIVE (ACM_r_BA_UUI_explicit_response_service2_provided (TCV_B_cic))			service 2 explicit response, provided
24		+ringing_tone			
25		+B_SEND (USR_m (TCV_B_cic))			3.
26		+B_RECEIVE (USR_m (TCV_B_cic))			3.
27		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_6_2_16_b_call_release			
28		+B_SEND (FAR_s_AB_With_fac_ind_and_UUI_explicit_non_essential_r equest_service3 (TCV_B_cic))			4.
29		+B_RECEIVE (FAA_r_AB_With_fac_ind_and_UUI_explicit_non_essential _request_service3 (TCV_B_cic))			5.
30		+B_SEND(USR_m (TCV_B_cic))			6.
31		+B_RECEIVE (USR_m (TCV_B_cic))			6.
32		+B_SEND_CALL_REL			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT so that the user has subscribed to the UUS2 and UUS3 supplementary services.

Case b)
 access SPA SPB
 <-----setup-----<-----IAM----- UUS2 explicit request
 -----alert-----> -----ACM-----> UUS2 explicit response
 ... ringing tone ...
 <-----user info-----<-----USR-----
 -----user info-----> -----USR----->
 -----connect-----> -----ANM----->
 ... check communication ...
 <----facility-req----<-----FAR----- UUS3 request
 ----facility-ind----> -----FAA-----> UUS3 response
 <----user info-----<-----USR-----
 ----user info-----> -----USR----->
 <----disc-----<-----REL-----
 -----RLC----->

Case b)
 access IUT SPB
 <-----setup-----<-----IAM----- UUS2 explicit request
 -----alert-----> -----ACM-----> UUS2 explicit response
 ... ringing tone ...
 <-----user info-----<-----USR-----
 -----user info-----> -----USR----->
 -----connect-----> -----ANM----->
 <-----connect ack--
 ... check communication ...
 <----facility-req----<-----FAR----- UUS3 request
 ----facility-ind----> -----FAA-----> UUS3 response

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<---user info-----	<-----USR-----
-----user info---->	-----USR----->
<---disc-----	<-----REL-----
-----release ---->	-----RLC----->
<--release comp--	

-
1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.
 2. The Service 2 fields in UUInd is set to request, not essential.
 3. Send/Receive user-to-user information (support of service 2)
 4. The service 3 is requested in FAR.
 5. Check service 3 is provided in FAA.
 6. Send/Receive user-to-user information (support of service 3)

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_1_32_octets_usertouser_information Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : 32 octets user-to-user information <p>To verify that the IUT can successfully initiate a call having 32 octets of user-to-user information in each message.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.3.2.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_1_call_setup, B_ISUP_PTC:B_6_3_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_1_call_release, B_ISUP_PTC:B_6_3_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_1_call_setup +A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
14		A_6_3_1_call_release +A_access_SEND (user_info_o_s (0, TSV_CREF1))			2.
15		+A_access_RECEIVE (user_info_o_r (1, TSV_CREF1))			
16		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
18		B_6_3_1_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_non_essential_request_service3 (**B))			service 3 explicit request, non-essential
19		+B_SEND (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_SEND (ANM_s_BA_UUI_service3_response_provided (TCV_B_cic))			service 3 explicit response, provided
22		+B_RECEIVE (USR_m_with_32_octet (TCV_B_cic))			2.
23		+B_SEND (USR_m_with_32_octet (TCV_B_cic))			
24		B_6_3_1_call_release +B_SEND_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.

```

access          SPA          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<-----alert----- <-----ACM-----
                ... ringing tone ...
<-----connect----- <-----ANM----- UUS3 response
                ... check communication ...
-----user info----> -----USR----->
<-----user info---- <-----USR-----
<-----disc----- <-----REL-----
                  -----RLC----->

```

```

access          IUT          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<----call proceeding---
<-----alert----- <-----ACM-----
                ... ringing tone ...
<-----connect----- <-----ANM----- UUS3 response
                ... check communication ...
-----user info----> -----USR----->
<-----user info---- <-----USR-----
<-----disc----- <-----REL-----
----release -----> -----RLC----->
<----release comp-----

```

-
1. Set up a call from UNI at SPA to SPB with user-to-user service 3 request.
 2. Check that the user-to-user information field in the USR contains 32 octets.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_2_a_Rejected_of_UUS3_after_call_set_up_if_rejected_at_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : Rejected of UUS3 after call set up, if rejected at call set up <p>To verify that the IUT can reject an UUS3 request after call set up, if it has been rejected at the call set up.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.3.2.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_2_a_call_setup, B_ISUP_PTC:B_6_3_2_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_2_a_call_release, B_ISUP_PTC:B_6_3_2_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_3_2_a_call_setup			
9		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
		A_6_3_2_a_call_release			
14		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_RECEIVE (facility_o_r (1, TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
16		+check_communication			
17		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
18		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_2_a_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB_UUI_explicit_non_essential_request_service3 (**B))			
20		+B_SEND (ACM_m (TCV_B_cic))			
21		+ringing_tone			
22		+B_SEND (ANM_s_BA_UUI_service3_response_provided (TCV_B_cic))			
		B_6_3_2_a_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+B_RECEIVE (FAR_r_AB_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			
24		+B_SEND (FRJ_s_AB_Cause29_and_UUI_service3_response_not_provided (TCV_B_cic))			
25		+check_communication			
26		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service. Case a) access SPA SPB -----setup-----> -----IAM-----> UUS3 explicit request <-----alert----- <-----ACM----- ... ringing tone ... <-----connect----- <-----ANM----- UUS3 response ... check communication ... ----facility-req----> -----FAR-----> <--facility-reject---- <-----FRJ----- ... check communication ... <-----disc----- <-----REL----- -----RLC-----> Case a) access IUT SPB -----setup-----> -----IAM-----> UUS3 explicit request <---call proceeding--- <-----alert----- <-----ACM----- ... ringing tone ... <-----connect----- <-----ANM----- UUS3 response ... check communication ... ----facility-req----> -----FAR-----> <--facility-reject---- <-----FRJ----- ... check communication ... <-----disc----- <-----REL----- -----release -----> -----RLC-----> <---release comp----- 1. Set up a call from UNI at SPA to SPB with user-to-user service 3 request.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_2_b_Rejected_of_UUS3_after_call_set_up_if_rejected_at_call_set_up Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : Rejected of UUS3 after call set up, if rejected at call set up <p>To verify that the IUT can reject an UUS3 request after call set up, if it has been rejected at the call set up.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.3.2.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_2_b_call_setup, B_ISUP_PTC:B_6_3_2_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_2_b_call_release, B_ISUP_PTC:B_6_3_2_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_3_2_b_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (alert_o_s (1, TSV_CREF1))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_3_2_b_call_release			
14		+A_access_RECEIVE (facility_o_r (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
15		+A_access_SEND (facility_o_s (1, TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByUser)))			
16		+check_communication			
17		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
18		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_2_b_call_setup			
19		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			1. service 3 explicit request, non-essential
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
21		+ringing_tone			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_RECEIVE (ANM_r_BA_UUI_service3_response_provided (TCV_B_cic))			service 3 explicit response, provided
23		B_6_3_2_b_call_release +B_SEND (FAR_s_AB_With_fac_ind_and_UUI_explicit_non_essential_r equest_service3 (TCV_B_cic))			
24		+B_RECEIVE (FRJ_r_BA_Cause29_and_UUI_service3_response_not_pr ovided (TCV_B_cic))			
25		+check_communication			
26		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_3_a_UUS3_explicit_nonessential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – request <p>To verify that the IUT can successfully originate/transit a call with an UUS3 explicit non-essential request, having the user-to-user indicators in the IAM set to "request, not essential".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_3_a_call_setup, B_ISUP_PTC:B_6_3_3_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_3_a_call_release, B_ISUP_PTC:B_6_3_3_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_3_a_call_setup +A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE))) +A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1)) +A_access_RECEIVE (alert_o_r (TSV_CREF1)) +ringing_tone +A_access_RECEIVE (connect_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE))) A_6_3_3_a_call_release +A_access_SEND (user_info_o_s_104 (0, TSV_CREF1)) +A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1)) +A_access_RECEIVE (disconnect_o_r (TSV_CREF1)) +A_access_SEND_CALL_REL_DEFAULT B_6_3_3_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_non_essential_request_service3 ('*B')) +B_SEND (ACM_m (TCV_B_cic)) +ringing_tone +B_SEND (ANM_s_BA_UUI_service3_response_provided (TCV_B_cic)) B_6_3_3_a_call_release +B_RECEIVE (USR_m (TCV_B_cic)) +B_SEND (USR_m (TCV_B_cic)) +B_SEND_CALL_REL			1.
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions (in case of OLE/DLE)

Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.

Case a)

```

access          SPA          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM----- UUS3 response
... check communication ...
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
<-----disc----- <-----REL-----
                      -----RLC----->

```

Case a)

```

access          IUT          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM----- UUS3 response
... check communication ...
-----user info-----> -----USR----->
<-----user info----- <-----USR-----
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_3_b_IUT_transits_a_call_for_UUS3_explicit_non_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the IUT can successfully originate/transit a call with an UUS3 explicit non-essential request, having the user to user indicators in the IAM set to "Request not essential" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.1.1.2 ; 1.3.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UUI_explicit_non_essential_request_service3 (TCV_A_cic)) +A_RECEIVE (ACM_m (TCV_A_cic)) +A_RECEIVE (ANM_r_BA_UUI_service3_response_provided (TCV_A_cic)) +A_SEND(USR_m (TCV_A_cic)) +A_RECEIVE (USR_m (TCV_A_cic))		1	
10					
11					
12					
13					
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_non_essential_request_service3 ("**B)) +B_SEND (ACM_m (TCV_B_cic)) +B_SEND (ANM_s_BA_UUI_service3_response_provided (TCV_B_cic)) +B_RECEIVE (USR_m (TCV_B_cic)) +B_SEND (USR_m (TCV_B_cic))			
16					
17					
18					
19					
20		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> UUS3 explicit request <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- UUS3 responsecheck communication..... -----USR-----> -----USR----->					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

<-----USR----- <-----USR-----

<---REL----- <---REL-----
-----RLC-----> -----RLC----->

Implementation:

SPA	IUT	SPB
----IAM----->	----IAM----->	UUS3 explicit request
<---ACM-----	<---ACM-----	

... ringing tone ...
<---ANM----- <---ANM----- UUS3 response
.....check communication.....
-----USR-----> -----USR----->
<-----USR----- <-----USR-----

<---REL----- <---REL-----
-----RLC-----> -----RLC----->

1. Set up a call from UNI at SPC to SPB with user-to-user service 3 request

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_4_a_UUS3_explicit_nonessential_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – acceptance <p>To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, having the Service 3 field in the user-to-user indicators parameter in the ANM or CON set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_4_a_call_setup, B_ISUP_PTC:B_6_3_4_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_4_a_call_release, B_ISUP_PTC:B_6_3_4_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_3_4_a_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (alert_o_s (1, TSV_CREF1))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_3_4_a_call_release			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
16		+check_communication			
17		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
18		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_4_a_call_setup			
19		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			1. service 3 explicit request, non-essential
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
21		+ringing_tone			
22		+B_RECEIVE (ANM_r_BA_UUI_service3_response_provided (TCV_B_cic))			service 3 explicit response, provided
		B_6_3_4_a_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+B_SEND (USR_m (TCV_B_cic))			
24		+B_RECEIVE (USR_m (TCV_B_cic))			
25		+check_communication			
26		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> <pre> access SPA SPB <-----setup----- <-----IAM----- UUS3 explicit request -----alert-----> -----ACM-----> ... ringing tone ... -----connect-----> -----ANM-----> UUS3 response ... check communication ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> ... check communication ... <-----disc----- <-----REL----- -----RLC-----> access IUT SPB <-----setup----- <-----IAM----- UUS3 explicit request -----alert-----> -----ACM-----> ... ringing tone ... -----connect-----> -----ANM-----> UUS3 response <-----connect ack-- ... check communication ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> ... check communication ... <-----disc----- <-----REL----- ----release ----> -----RLC-----> <--release comp-- </pre> <hr/> <p>1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_4_b_UUS3_explicit_nonessential_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – acceptance <p>To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, having the Service 3 field in the user-to-user indicators parameter in the ANM or CON set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ACCESS_PTC:A_6_3_4_b_call_setup, B_ISUP_PTC:B_6_3_4_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_4_b_call_release, B_ISUP_PTC:B_6_3_4_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_6_3_4_b_call_setup			1. service 3 explicit request, non-essential service 3 explicit response, provided
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (connect_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
11		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
		A_6_3_4_b_call_release			
12		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+check_communication			
15		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
16		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_4_b_call_setup			
17		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			
18		+B_RECEIVE (CON_r_AB_UUI_service3_response_provided (TCV_B_cic))			
		B_6_3_4_b_call_release			
19		+B_SEND (USR_m (TCV_B_cic))			
20		+B_RECEIVE (USR_m (TCV_B_cic))			
21		+check_communication			
22		+B_SEND_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions (in case of OLE/DLE)

Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.

```

access          SPA          SPB
<-----setup----- <-----IAM----- UUS3 explicit request
-----connect-----> -----CON-----> UUS3 response
... check communication ...
<----user info----- <-----USR-----
-----user info-----> -----USR----->
... check communication ...
<-----disc----- <-----REL-----
-----RLC----->

```

Implementation

```

access          IUT          SPB
<-----setup----- <-----IAM----- UUS3 explicit request
-----connect-----> -----CON-----> UUS3 response
<-----connect ack--
... check communication ...
<----user info----- <-----USR-----
-----user info-----> -----USR----->
... check communication ...
<-----disc----- <-----REL-----
----release ----> ----RLC----->
<--release comp--

```

1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_5_UUS3_explicit_nonessential_rejection_no_indication Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – rejection, no indication To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, if no indication is provided in the backward direction. Note: The network or the user cannot support UUS3.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.5.2.3 ; 1.3.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_5_call_setup, B_ISUP_PTC:B_6_3_5_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_5_call_release, B_ISUP_PTC:B_6_3_5_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_5_call_setup +A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			No UUS3 response
14		A_6_3_5_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_3_5_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_non_essential_request_service3 (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+ringing_tone			
19		+B_SEND (ANM_m (TCV_B_cic))			No UUS3 response
20		B_6_3_5_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions <div style="text-align: center;"> access SPA SPB -----setup-----> -----IAM-----> UUS3 explicit request </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM----- no UUS3 response
... check communication ...
<-----disc----- <-----REL-----
-----RLC----->

access          IUT          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM----- no UUS3 response
... check communication ...
<-----disc----- <-----REL-----
----release -----> ----RLC----->
<---release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_6_a_UUS3_explicit_nonessential_rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – rejection <p>To verify that the UUS3 service can be rejected and the Service 3 field in the user-to-user indicators in the ANM or CON are set to "service 3 not provided". Note: The network or the called user cannot support UUS3.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.5.2.2 ; 1.3.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_6_a_call_setup, B_ISUP_PTC:B_6_3_6_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_6_a_call_release, B_ISUP_PTC:B_6_3_6_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_6_a_call_setup +A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_fie (TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByUser)))			
14		A_6_3_6_a_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_3_6_a_call_setup +B_RECEIVE_cic (IAM_r_AB_UII_explicit_non_essential_request_service3 ('*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+ringing_tone			
19		+B_SEND (ANM_s_BA_User_to_user_info_s3_not_provided (TCV_B_cic))			
20		B_6_3_6_a_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case a)
access          SPA          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM----- UUS3 response
... check communication ...
<-----disc----- <-----REL-----
                      -----RLC----->

```

```

Case a)
access          IUT          SPB
-----setup-----> -----IAM-----> UUS3 explicit request
<----call proceeding----
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM----- UUS3 response
... check communication ...
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<----release comp-----

```

1. Set up a call from UNI at SPA to SPB with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_6_b_a_UUS3_explicit_nonessential_rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – rejection <p>To verify that the UUS3 service can be rejected and the Service 3 field in the user-to-user indicators in the ANM or CON are set to "service 3 not provided". Note: The network or the called user cannot support UUS3.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.5.2.2 ; 1.3.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_6_b_a_call_setup, B_ISUP_PTC:B_6_3_6_b_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_6_b_a_call_release, B_ISUP_PTC:B_6_3_6_b_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_6_b_a_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (alert_o_s (1, TSV_CREF1))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
14		A_6_3_6_b_a_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
16		B_6_3_6_b_a_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			1. service 3 explicit request, non-essential
17		+B_RECEIVE (ACM_m (TCV_B_cic))			
18		+ringing_tone			
19		+B_RECEIVE (ANM_r_AB_User_to_user_info_s3_not_provided (TCV_B_cic))			service 3 explicit response, not provided
20		B_6_3_6_b_a_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case b)
access          SPA          SPB
<-----setup-----> <-----IAM-----> UUS3 explicit request
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM-----> UUS3 response
... check communication ...
<-----disc-----> <-----REL----->
-----RLC----->

```

```

Case b)
Implementation
access          IUT          SPB
<-----setup-----> <-----IAM-----> UUS3 explicit request
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM-----> UUS3 response
<-----connect ack--
... check communication ...
<-----disc-----> <-----REL----->
----release -----> -----RLC----->
<--release comp--

```

1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

<-----setup----- <-----IAM----- UUS3 explicit request
-----connect-----> -----CON-----> UUS3 response
... check communication ... ...
<-----disc----- <-----REL-----
                    -----RLC----->

```

Case b)

Implementation

```

access          IUT          SPB
<-----setup----- <-----IAM----- UUS3 explicit request
-----connect-----> -----CON-----> UUS3 response
<-----connect ack--
... check communication ... ...
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<--release comp--

```

-
1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_6_c_a_Non_essential_service_rejected_in_UUS3 Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the UUS3 service can be rejected and the service3 field in the user to user indicators in the ANM or CON are set to "Service3 Not Provided". Note: The network or the called user cannot support UUS3. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.5.2.2; 1.3.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS:					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_6_3_6_c_a_call_setup, B_ISUP_PTC:B_6_3_6_c_a_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_6_3_6_c_a_call_release, B_ISUP_PTC:B_6_3_6_c_a_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_6_c_a_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service3 (*B)) +A_SEND (ACM_m (TCV_A_cic))			
10		+A_SEND			
11		(ANM_s_BA_User_to_user_info_s3_not_provided (TCV_A_cic)) A_6_3_6_c_a_call_release +A_RECEIVE_CALL_REL			
12		B_6_3_6_c_a_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			
13		+B_RECEIVE (ACM_m (TCV_B_cic))			
14		+B_RECEIVE (ANM_r_AB_UUI_service3_response_not_provided (TCV_B_cic)) B_6_3_6_c_a_call_release +B_SEND_CALL_REL			
15					
16					
Detailed Comments : SPC SPA SPB <----IAM----- <----IAM----- UUS3 explicit request -----ACM-----> -----ACM----->ringing tone..... -----ANM-----> -----ANM-----> UUS3 explicit responsecheck communication..... <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> Implementation SPA IUT SPB <----IAM----- <----IAM----- UUS3 explicit request -----ACM-----> -----ACM----->ringing tone.....					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

-----ANM-----> -----ANM-----> UUS3 explicit response
.....check communication.....
<-----REL----- <-----REL-----
-----RLC-----> -----RLC----->

1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_6_c_b_Non_essential_service_rejected_in_UUS3 Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the UUS3 service can be rejected and the service3 field in the user to user indicators in the ANM or CON are set to "Service3 Not Provided". Note: The network or the called user cannot support UUS3. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.5.2.2; 1.3.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS:					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_6_3_6_c_b_call_setup, B_ISUP_PTC:B_6_3_6_c_b_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_6_3_6_c_b_call_release, B_ISUP_PTC:B_6_3_6_c_b_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_6_c_b_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service3 ('*B))			
10		+A_SEND (CON_s_AB_UUI_service3_response_not_provided (TCV_A_cic))			
11		A_6_3_6_c_b_call_release +A_RECEIVE_CALL_REL B_6_3_6_c_b_call_setup			
12		+B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			
13		+B_RECEIVE (CON_r_AB_UUI_service3_response_not_provided (TCV_B_cic))			
14		B_6_3_6_c_b_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <-----IAM-----> <-----IAM-----> UUS3 explicit request -----CON-----> -----CON-----> UUS3 explicit responsecheck communication..... <-----REL-----> <-----REL-----> -----RLC-----> -----RLC----->					
Implementation SPA IUT SPB <-----IAM-----> <-----IAM-----> UUS3 explicit request -----CON-----> -----CON-----> UUS3 explicit responsecheck communication..... <-----REL-----> <-----REL-----> -----RLC-----> -----RLC----->					

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Test Case Dynamic Behaviour
<p>Detailed Comments : ...</p> <hr/> <p>1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.</p>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_7_a_UUS3_explicit_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit essential – request <p>To verify that the IUT can successfully originate/transit a call with an UUS3 explicit essential request, having in the IAM the user-to-user indicators set to "request, essential" and the ISDN user part preference indicator in the forward call indicators set to "ISUP required all the way".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_7_a_call_setup, B_ISUP_PTC:B_6_3_7_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_7_a_call_release, B_ISUP_PTC:B_6_3_7_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_3_7_a_call_setup			
9		+A_access_SEND (setup_o_s_with_fie (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, FALSE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
12		+ringing_tone			
13		+A_access_RECEIVE (connect_o_r_with_fie (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, FALSE)))			
14		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
15		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
		A_6_3_7_a_call_release			
16		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_7_a_call_setup			
18		+B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_service3_and_IS UP_required ("*B))			
19		+B_SEND (ACM_m (TCV_B_cic))			
20		+ringing_tone			
21		+B_SEND (ANM_s_BA_UUI_service3_response_provided (TCV_B_cic))			
22		+B_RECEIVE (USR_m (TCV_B_cic))			2.
23		+B_SEND (USR_m (TCV_B_cic))			2.
		B_6_3_7_a_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> <p>Case a)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> UUS3 explicit request <-----alert----- <-----ACM----- ... ringing tone ... <-----connect----- <-----ANM----- UUS3 response ... check communication ... -----user info-----> -----USR-----> <-----user info----- <-----USR----- <-----disc----- <-----REL----- -----RLC-----> </pre> <p>Case a)</p> <p>Implementation</p> <pre> access IUT SPB -----setup-----> -----IAM-----> UUS3 explicit request <---call proceeding-- <-----alert----- <-----ACM----- ... ringing tone ... <-----connect----- <-----ANM----- UUS3 response ... check communication ... -----user info-----> -----USR-----> <-----user info----- <-----USR----- <-----disc----- <-----REL----- -----release -----> -----RLC-----> <---release comp----- </pre> <hr/> <p>1. Set up a call from UNI at SPA to SPB with user-to-user service 3 request. 2. Send/Receive user-to-user information.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_7_b_IUT_transits_a_call_for_UUS3_explicit_essential_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the IUT can successfully transit a call with an UUS3 explicit essential request, having the user to user indicators in the IAM set to "Request essential". and the ISDN user part preference indicator in the forward call indicators set to "ISUP required all lthe way". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.1.1.2 ; 1.3.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_UUI_explicit_essential_request_service3_and_IS UP_required (TCV_A_cic)) +A_RECEIVE (ACM_m (TCV_A_cic)) +A_RECEIVE (ANM_r_BA_UUI_service3_response_provided (TCV_A_cic)) +A_SEND(USR_m (TCV_A_cic)) +A_RECEIVE (USR_m (TCV_A_cic))		1	
10					
11					
12					
13					
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_UUI_explicit_essential_request_service3_and_IS UP_required ("*B)) +B_SEND (ACM_m (TCV_B_cic)) +B_SEND (ANM_s_BA_UUI_service3_response_provided (TCV_B_cic)) +B_RECEIVE (USR_m (TCV_B_cic)) +B_SEND (USR_m (TCV_B_cic))			
16					
17					
18					
19					
20		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> UUS3 explicit request <----ACM----- <----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- UUS3 responsecheck communication.....					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div><div>-----USR-----> -----USR-----> <-----USR----- <-----USR-----</div><div><div><---REL----- <---REL----- -----RLC-----> -----RLC-----></div><div></div></div></div><div>Implementation:<div><div>SPA IUT SPB ----IAM-----> ----IAM-----> UUS3 explicit request <---ACM----- <---ACM-----</div><div><div>... ringing tone ... <-----ANM----- <-----ANM----- UUS3 response check communication..... -----USR-----> -----USR-----> <-----USR----- <-----USR-----</div><div><div><---REL----- <---REL----- -----RLC-----> -----RLC-----></div><div><div>1. Set up a call from UNI at SPC to SPB with user-to-user service 3 request 2. Send /receive user to user information.</div></div></div></div></div></div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_8_a_UUS3_explicit_essential_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit essential – acceptance <p>To verify that the IUT can successfully complete a call with an UUS3 explicit essential request having in the ANM or CON the Service 3 field of the user-to-user indicators parameter set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_8_a_call_setup, B_ISUP_PTC:B_6_3_8_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_8_a_call_release, B_ISUP_PTC:B_6_3_8_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_3_8_a_call_setup			
9		+A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, FALSE)))			
10		+A_access_SEND (alert_o_s (1, TSV_CREF1))			
11		+ringing_tone			
12		+A_access_SEND (connect_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, FALSE)))			
13		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
14		+check_communication			
15		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
16		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
		A_6_3_8_a_call_release			
17		+A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
18		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_8_a_call_setup			
19		+B_SEND (IAM_s_BA_UUI_explicit_essential_request_service3_and_IS UP_required (TCV_B_cic))			1. service 3 explicit request, essential
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
21		+ringing_tone			
22		+B_RECEIVE (ANM_r_AB_User_to_user_info_s3 (TCV_B_cic))			service 3 explicit response, provided

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+check_communication			
24		+B_SEND (USR_m (TCV_B_cic))			
25		+B_RECEIVE (USR_m (TCV_B_cic))			
		B_6_3_8_a_call_release			
26		+B_SEND_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> <pre> access SPA SPB <-----setup----- <-----IAM----- UUS3 explicit request -----alert-----> -----ACM-----> ... ringing tone ... -----connect-----> -----ANM-----> UUS3 response ... check communication ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> ... check communication ... <-----disc----- <-----REL----- -----RLC-----> </pre> <p>Implementation</p> <pre> access IUT SPB <-----setup----- <-----IAM----- UUS3 explicit request -----alert-----> -----ACM-----> ... ringing tone ... -----connect-----> -----ANM-----> UUS3 response <-----connect ack-- ... check communication ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> ... check communication ... <-----disc----- <-----REL----- ----release ----> -----RLC-----> <--release comp-- </pre> <hr/> <p>1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_8_b_UUS3_explicit_essential_acceptance Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit essential – acceptance <p>To verify that the IUT can successfully complete a call with an UUS3 explicit essential request having in the ANM or CON the Service 3 field of the user-to-user indicators parameter set to "service provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_8_b_call_setup, B_ISUP_PTC:B_6_3_8_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_8_b_call_release, B_ISUP_PTC:B_6_3_8_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_8_b_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, FALSE)))			
10		+A_access_SEND (connect_o_s_with_fie (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, FALSE)))			Mit tegyek bele? S3 explicit response
11		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
12		+check_communication			
13		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
14		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
15		A_6_3_8_b_call_release +A_access_RECEIVE (disconnect_o_r(TSV_CREF1))			
16		+A_access_SEND_CALL_REL_DEFAULT			
17		B_6_3_8_b_call_setup +B_SEND (IAM_s_BA_UUI_explicit_essential_request_service3_and_IS UP_required (TCV_B_cic))			1. service 3 explicit request, essential
18		+B_RECEIVE (CON_r_AB_UUI_service3_response_provided (TCV_B_cic))			service 3 explicit response, provided
19		+check_communication			
20		+B_SEND (USR_m (TCV_B_cic))			
21		+B_RECEIVE (USR_m (TCV_B_cic))			
22		B_6_3_8_b_call_release +B_SEND_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions (in case of OLE/DLE)

Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.

```

access          SPA          SPB
<-----setup----- <-----IAM----- UUS3 explicit request
-----connect-----> -----CON-----> UUS3 response
                ... check communication ...
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
                ... check communication ...
<-----disc----- <-----REL-----
                -----RLC----->

```

Implementation

```

access          IUT          SPB
<-----setup----- <-----IAM----- UUS3 explicit request
-----connect-----> -----CON-----> UUS3 response
<-----connect ack--
                ... check communication ...
<-----user info----- <-----USR-----
-----user info-----> -----USR----->
                ... check communication ...
<-----disc----- <-----REL-----
-----release ----> -----RLC----->
<--release comp--

```

1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_9_a_UUS3_explicit_essential_rejection Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit essential – rejection <p>To verify that the service can be rejected with a REL having the Cause value # 29 "facility rejected", # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name). Note: The network or the called user cannot support the service</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.5.2.2 ; 1.3.5.2.2–5.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_9_a_call, B_ISUP_PTC:B_6_3_9_a_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_3_9_a_call +A_access_RECEIVE (setup_o_r_with_fie_and_uui (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, FALSE)))			
7		+A_access_SEND (disconnect_without_component (1, TSV_CREF1, 29))			2.
8		+A_access_RECEIVE_CALL_REL_DEFAULT B_6_3_9_a_call			
9		+B_SEND (IAM_s_BA_UUI_explicit_essential_request_service3_and_ISUP_required (TCV_B_cic))			1. S3 explicit request, essential
10		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : <p>Case a) access SPA SPB <-----setup-----<-----IAM----- UUS3 explicit request -----disc-----> -----REL-----> <-----RLC-----</p> <p>Case a) Implementation access IUT SPB <-----setup-----<-----IAM----- UUS3 explicit request -----disc-----> -----REL-----> <-----RLC-----</p> <p>1. Set up a call UNI at SPB to SPA with user-to-user service 3 request. 2. The call should be released with cause #29 or #69.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_9_b_Service_rejected_received_in_the_REL_message_for_UUS3 Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the service can be rejected with a release having the cause value 29 "Facility rejected" or 69 "Requested facility not implemented", either with diagnostics (user to user indicator name). Note: The network or the called user cannot support the service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.5.2.2 ; 1.3.5.2.2-5.2 /Q.737 PRE-TEST CONDITIONS :					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call, B_ISUP_PTC:B_call)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
		A_call			
6		+A_RECEIVE_cic (IAM_r_BA_UUI_explicit_essential_request_service3_and_IS UP_required ("*B"))			
7		+A_SEND (CFN_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_A_cic))		2	
8		+A_RECEIVE(REL_r_BA_Default (TCV_A_cic))			
9		+A_SEND (RLC_m (TCV_A_cic))			
		B_call			
10		+B_SEND (IAM_s_BA_UUI_explicit_essential_request_service3_and_IS UP_required (TCV_B_cic))		1	
11		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
12		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB <----IAM(UUInf)----<----IAM(UUInf)----- UUS3 explicit request -----CFN-----> -----REL-----> <-----REL----- <-----RLC----- -----RLC-----> Implementation: SPA IUT SPB <----IAM(UUInf)----<----IAM(UUInf)----- UUS3 explicit request -----CFN-----> -----REL-----> <-----REL----- <-----RLC----- -----RLC-----> 1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request. 2. The call should be released with cause #29 or #69 .					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_10_a_UUS3_explicit_nonessential_request_during_the_active_phase_of_the_call Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – request during the active phase of the call To verify that the IUT can successfully generate/transit an UUS3 explicit non-essential request, with a FAR having the facility indicator parameter set to "user-to-user service" and the Service 3 field in the user-to-user indicators set to "request, not essential". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2–5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_10_a_call_setup, B_ISUP_PTC:B_6_3_10_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_10_a_call_release, B_ISUP_PTC:B_6_3_10_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_10_a_call_setup +A_access_CALL_SETUP_AB_DEFAULT A_6_3_10_a_call_release			
10		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
11		+A_access_RECEIVE (facility_o_r (1, TSV_CREF1, c_UUS_return_error (TCV_inv_id, rejectedByNetwork)))			
12		+check_communication			
13		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
14		+A_access_SEND_CALL_REL_DEFAULT B_6_3_10_a_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+ringing_tone			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		B_6_3_10_a_call_release +B_RECEIVE (FAR_r_AB_With_fac_ind_and_UUI_explicit_non_essential_r equest_service3 (TCV_B_cic))			
20		+B_SEND (FRJ_s_BA_Cause29_and_UUI_service3_response_not_pr ovided (TCV_B_cic))			
21		+check_communication			
22		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Case a)
 access SPA SPB
 -----setup-----> -----IAM----->
 <-----alert----- <-----ACM-----
 ... ringing tone ...
 <-----connect----- <-----ANM-----
 ... check communication ...
 ----facility-req----> -----FAR-----> UUS3 explicit request
 <-facility-reject--- <-----FRJ----- UUS3 response
 ... check communication ...
 <-----disc----- <-----REL-----
 -----RLC----->

Case a)
 Implementation
 access IUT SPB
 -----setup-----> -----IAM----->
 <----call proceeding---
 <-----alert----- <-----ACM-----
 ... ringing tone ...
 <-----connect----- <-----ANM-----
 ... check communication ...
 ----facility-req----> -----FAR-----> UUS3 explicit request
 <-facility-reject--- <-----FRJ----- UUS3 response
 ... check communication ...
 <-----disc----- <-----REL-----
 -----release-----> -----RLC----->
 <----release comp-----

1. Service 3 request during the active phase.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_10_b_IUT_transits_a_call_for_UUS3_explicit_non_essential_request_during_active_phase_of_call Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the IUT can successfully transit an UUS3 explicit non-essential request, with a FAR having the facility indicator parameter set to " user to user service" and the service 3 field in the user to user indicators set to "Request not essential" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.1.1.2 ; 1.3.5.2.2-5.1 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_SEND(FAR_s_AB_With_fac_ind_and_UUI_explicit_ non_essential_request_service3 (TCV_A_cic))		1	
13		+A_RECEIVE (FRJ_r_BA_Cause29_and_UUI_service3_response_no t_provided(TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		+B_RECEIVE (FAR_r_AB_With_fac_ind_and_UUI_explicit_non_essen tial_request_service3 (TCV_B_cic))			
19		+B_SEND (FRJ_s_BA_Cause29_and_UUI_service3_response_no t_provided (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <----ACM----- <----ACM----- ... ringing tone ... <-----ANM----- <-----ANM-----check communication.....					

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Test Case Dynamic Behaviour

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_11_UUS3_explicit_nonessential_acceptance_during_call Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 explicit non-essential – acceptance during call To verify that the IUT can successfully reply to an UUS3 explicit non-essential request with a FAA having the facility indicator parameter set to "user-to-user service" and the Service 3 field in the user-to-user indicators parameter set to "service provided". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.5.2.1.1.2 ; 1.3.5.2.2-5.1 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_11_call_setup, B_ISUP_PTC:B_6_3_11_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_11_call_release, B_ISUP_PTC:B_6_3_11_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_6_3_11_call_setup			
9		+A_access_CALL_SETUP_BA_DEFAULT			
		A_6_3_11_call_release			
10		+A_access_RECEIVE (facility_o_r (0, TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
11		+A_access_SEND (facility_o_s (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_11_call_setup			
16		+B_CALL_SETUP (IAM_s_BA (TCV_B_cic), ACM_m(TCV_B_cic), ANM_m (TCV_B_cic))			
		B_6_3_11_call_release			
17		+B_SEND (FAR_s_AB_With_fac_ind_and_UUI_explicit_non_essential_r equest_service3 (TCV_B_cic))			1.
18		+B_RECEIVE (FAA_r_AB_With_fac_ind_and_UUI_explicit_non_essential _request_service3 (TCV_B_cic))			2.
19		+B_SEND(USR_m (TCV_B_cic))			3.
20		+B_RECEIVE (USR_m (TCV_B_cic))			3.
21		+B_SEND_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions (in case of OLE/DLE)

Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.

```

access          SPA          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
... check communication ...
<----facility-req---- <-----FAR----- UUS3 request
----facility-ind----> -----FAA-----> UUS3 response
<----user info----- <-----USR-----
-----user info-----> -----USR----->
<-----disc----- <-----REL-----
-----RLC----->

```

Implementation

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
<-----connect ack--
... check communication ...
<----facility-req---- <-----FAR----- UUS3 request
----facility-ind----> -----FAA-----> UUS3 response
<----user info----- <-----USR-----
-----user info-----> -----USR----->
<-----disc----- <-----REL-----
----release ----> -----RLC----->
<--release comp--

```

-
1. The service 3 is requested in FAR.
 2. Check service 3 is provided in FAA.
 3. Send/Receive user-to-user information (support of service 3)

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_12_UUS3_explicit_non_essential_explicit_rejection_in_the_Gateway Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the UUS3 explicit non essential service can be rejected and the service3 field in the user to user indicators in the ACM or CON are set to "Service3 Not Provided". Note: The user to user service is rejected because the IntermE received e.g. a CFN from the succeeding network (see Note 2 Table 1-3) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: ISUP v2 reference Table 1-3 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA_UUI_explicit_non_essential_request_service3 (*B))			
10		+A_SEND (CFN_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_A_cic))			
11		+A_SEND (CON_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_SEND (IAM_s_BA_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			1,2
14		+B_RECEIVE (ACM_m (TCV_B_cic))			3
15		+B_RECEIVE (ANM_r_AB_UUI_service3_response_not_provided (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <----IAM----- <----IAM----- UUS3 explicit request -----CFN-----> -----ACM----->ringing tone..... -----CON-----> -----ANM-----> UUS3 explicit response <-----REL----- <-----REL----- -----RLC-----> Implementation: SPA IUT SPB <----IAM----- <----IAM----- UUS3 explicit request					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----CFN-----> -----ACM----->
.....ringing tone.....
-----CON-----> -----ANM-----> UUS3 explicit response
<-----REL----- <-----REL-----
                   -----RLC----->
```

1. Set up a call from UNI at SPB to SPA with user-to-user service 3 request.
2. The service 3 field in UUInd is set to "Request not essential".
3. Check the response "service not provided" in the ACM or CON.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_13_UUS3_explicit_non_essential_implicit_rejection_during_call Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the IUT can successfully complete a call with an UUS3 request in the FAR if the FAA or FRJ are discarded. (A-exchange) Note: The FAA or FRJ are discarded because the FAR contains unrecognised or inconsistent information. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.5.2.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		START T_10s			Verify that no response is received
13		? TIMEOUT T_10s		(P)	
14		A_PCO ? OTHERWISE CANCEL T_10s		(F)	
		A_call_release			
15		+A_RECEIVE_CALL_REL			
		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		+B_SEND (FAR_s_BA_With_inconsistent_information (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM-----check communication..... <-----FAR----- UUS3 explicit <---REL----- <---REL----- -----RLC-----> -----RLC----->					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Implementation:

```
SPA                      IUT                      SPB
----IAM----->  ----IAM----->
<---ACM-----  <---ACM-----

                ... ringing tone ...
<---ANM-----  <---ANM-----
        .....check communication.....
                        <---FAR----- UUS3 explicit

<---REL-----  <---REL-----
----RLC----->  ----RLC----->
```

1. Service 3 request during the active phase.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_6_3_14_UUS3_explicit_non_essential_explicit_rejection_during_call Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : To verify that the UUS3 explicit non-essential service during the active phase of the call can be rejected and the Service 3 field in the user-to-user indicators in the FRJ is set to "service 3 not provided". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.3.5.2.5.2.2 /Q.737 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_RECEIVE (FAR_r_BA_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (TCV_A_cic))			
13		+A_SEND (FRJ_s_AB_Cause29_and_UUI_service3_response_not_provided (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB ('*B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		+B_SEND (FAR_s_BA_With_fac_ind_and_UUI_explicit_non_essential_request_service3 (TCV_B_cic))			
19		+B_RECEIVE (FRJ_r_AB_Cause29_and_UUI_service3_response_not_provided (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... <-----FAR----- <-----FAR----- UUS3 explicit request					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----FRJ-----> -----FRJ-----> UUS3 response (serv. not provided)
... check communication ...
<-----REL----- <-----REL-----
-----RLC-----> -----RLC----->
```

Implementation:

```
SPA                IUT                SPB
---IAM-----> ---IAM----->
<---ACM----- <---ACM-----

... ringing tone ...
<---ANM----- <---ANM-----
.....check communication.....
<---FAR-----<---FAR----- UUS3 explicit
-----FRJ-----> -----FRJ-----> UUS3 response (serv. not provided)

<---REL----- <---REL-----
-----RLC-----> -----RLC----->
```

1. Service 3 request during the active phase.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_15_a_UUS3_interaction_with_UUS1_or_UUS2_unsuccessful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 interaction with UUS1 (or UUS2) – unsuccessful request To verify that the services can be rejected with a REL having the Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name),. if more services are requested one of them essential which cannot be provided.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.6.13.1 ; 1.3.6.13.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_15_a_call, B_ISUP_PTC:B_6_3_15_a_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_3_15_a_call +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
7		+A_access_SEND (disconnect_without_component (1, TSV_CREF1, 29))			2.
8		+A_access_RECEIVE_CALL_REL_DEFAULT B_6_3_15_a_call			
9		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1. S1, S2, S3 explicit request
10		+B_RECEIVE (REL_r_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 and UUS1 or (UUS2) supplementary services. See ISS_V_6_2_14 <div> <div>Case a)</div> <div>access</div> <div> <div><-----setup(UUInf)-----</div> <div>-----disc-----></div> </div> <div> <div>SPA</div> <div> <div><-----IAM(UUInf)-----</div> <div>-----REL-----></div> <div><-----RLC-----</div> </div> <div>SPB</div> <div>UUS1, 2, 3 explicit request</div> </div> </div> <div> <div>Case a)</div> <div>access</div> <div> <div><-----setup(UUInf)-----</div> <div>-----disc-----></div> </div> <div> <div>IUT</div> <div> <div><-----IAM(UUInf)-----</div> <div>-----REL-----></div> </div> <div>SPB</div> <div>UUS1, 2, 3 explicit request</div> </div> </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<-----release -----<-----RLC-----
----release comp---->

-
1. Set up a call UNI at SPB to SPA with user-to-user information and user-to-user service 2, 3 request.
 2. The call should be released with cause #29 or #69, because the service 2 cannot be provided.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_15_b_UUS3_interaction_with_UUS1_or_UUS2_unsuccessful_request Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 interaction with UUS1 (or UUS2) – unsuccessful request To verify that the services can be rejected with a REL having the Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name),. if more services are requested one of them essential which cannot be provided.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.3.6.13.1 ; 1.3.6.13.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_15_b_call, B_ISUP_PTC:B_6_3_15_b_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_6_3_15_b_call +A_access_SEND (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
7		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
8		+A_access_RECEIVE (disconnect_without_component (1, TSV_CREF1, 29))			
9		+A_access_SEND_CALL_REL_DEFAULT			
10		B_6_3_15_b_call +B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd_s1_s2_s3 (**B))			S1, S2, S3 explicit request
11		+B_SEND (REL_s_AB_Cause_29_and_diagnostics_for_UUI (TCV_B_cic))			2.
12		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 and UUS1 or (UUS2) supplementary services. See ISS_V_6_2_14 <div style="text-align: center;"> Case b) access SPA SPB -----setup(UUInf)-----> -----IAM(UUInf)-----> UUS1, 2, 3 explicit request <-----disc-----<-----REL-----<----- -----RLC-----> </div> <div style="text-align: center;"> Case b) access IUT SPB </div>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----setup(UUInf)----> -----IAM(UUInf)-----> UUS1, 2, 3 explicit request
<---call proceeding---
<-----disc-----   <-----REL-----
-----release -----> -----RLC----->
<---release comp-----
```

1. Set up a call UNI at SPA to SPB with user-to-user information and user-to-user service 2, 3 request.

2. The call should be released with cause #29 or #69, because the service 2 cannot be provided.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_16_a_UUS3_interaction_with_UUS1_or_UUS2_Independent_acceptance_or_rejection_of_the_services Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 interaction with UUS1 (or UUS2) – Independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, having the Service 3 field in the user-to-user indicators parameter set to "service provided" in ANM or CON. At the same time the UUS1 (or UUS2) service can be rejected and the user-to-user indicators in the ACM or CPG or ANM or CON or REL are set to "service 1 (or 2) not provided". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.6.13.1; 1.3.6.13.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_16_a_call_setup, B_ISUP_PTC:B_6_3_16_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_16_a_call_release, B_ISUP_PTC:B_6_3_16_a_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_16_a_call_setup +A_access_SEND (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			1.
10		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (alert_o_r_with_fie_and_uui_s1_s2 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE)))			
12		+ringing_tone			
13		+A_access_SEND (user_info_o_s_104 (0, TSV_CREF1))			
14		+A_access_RECEIVE (user_info_o_r_104 (1, TSV_CREF1))			
15		+A_access_RECEIVE (connect_o_r_with_uui_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
16		A_6_3_16_a_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT B_6_3_16_a_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_RECEIVE_cic (IAM_r_AB_UserToUserInfo_UserToUserInd_s1_s2_s3 ("**B))			2. S1, S2, S3 explicit request
19		+B_SEND (ACM_s_BA_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
20		+ringing_tone			
21		+B_RECEIVE (USR_m (TCV_B_cic))			3.
22		+B_SEND (USR_m (TCV_B_cic))			3.
23		+B_SEND (ANM_s_BA_User_to_user_info_s3_not_provided (TCV_B_cic))			S3 explicit response
24		B_6_3_16_a_call_release +B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
25		+B_RECEIVE (RLC_m (TCV_B_cic))			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the user has subscribed to the UUS3 and UUS1 (or UUS2) supplementary services.

See ISS_V_6_2_15

Case a)

```

access          SPA          SPB
----setup(UUInf)----> -----IAM(UUInf)----> UUS1, 2, 3 explicit request
<---alert(UUInf)----- <-----ACM(UUInf)----- UUS1, 2 explicit response
... ringing tone ...
-----user info-----> -----USR-----
<---user info----- <-----USR-----
<---connect(UUInf)----- <-----ANM(UUInf)----- UUS 3 explicit response
... check communication ...
<---disc(UUInf)----- <-----REL(UUInf)-----
                        -----RLC----->

```

Case a)

```

access          IUT          SPB
----setup(UUInf)----> -----IAM(UUInf)----> UUS1, 2, 3 explicit request
<---call proceeding---
<---alert(UUInf)----- <-----ACM(UUInf)----- UUS1, 2 explicit response
... ringing tone ...
-----user info-----> -----USR-----
<---user info----- <-----USR-----
<---connect(UUInf)----- <-----ANM(UUInf)----- UUS 3 explicit response
... check communication ...
<---disc(UUInf)----- <-----REL(UUInf)-----
      -----release -----> -----RLC----->
<---release comp-----

```

- Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service 2, 3 request.
- Check that the Service 1, 2, 3 fields in UUInd are set each to request, not essential.
- Send/Receive user-to-user information (support of service 2).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_16_b_UUS3_interaction_with_UUS1_or_UUS2_Independent_acceptance_or_rejection_of_the_services Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 interaction with UUS1 (or UUS2) – Independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, having the Service 3 field in the user-to-user indicators parameter set to "service provided" in ANM or CON. At the same time the UUS1 (or UUS2) service can be rejected and the user-to-user indicators in the ACM or CPG or ANM or CON or REL are set to "service 1 (or 2) not provided".					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.6.13.1; 1.3.6.13.2 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_16_b_call_setup, B_ISUP_PTC:B_6_3_16_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_16_b_call_release, B_ISUP_PTC:B_6_3_16_b_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_6_3_16_b_call_setup +A_access_RECEIVE (setup_o_r_with_fie_and_uui_s1_s2_s3 (TSV_CREF1, c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_r_invID (TCV_inv_id, 3, TRUE)))			
10		+A_access_SEND (alert_o_s_with_fie_and_uui_s1_s2 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE)))			
11		+ringing_tone			
12		+A_access_RECEIVE (user_info_o_r_104 (0, TSV_CREF1))			
13		+A_access_SEND (user_info_o_s_104 (1, TSV_CREF1))			
14		+A_access_SEND (connect_o_s_with_uui_s3 (1, TSV_CREF1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)))			
15		+A_access_RECEIVE (connect_ack_o_r (TSV_CREF1))			
16		A_6_3_16_b_call_release +A_access_RECEIVE (disconnect_o_r_with_uui (TSV_CREF1))			
17		+A_access_SEND_CALL_REL_DEFAULT B_6_3_16_b_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_SEND (IAM_s_BA_UserToUserInfo_UserToUserInd_s1_s2_s3 (TCV_B_cic))			1., 2. S1, S2, S3 explicit request
19		+B_RECEIVE (ACM_r_AB_UserToUserInfo_UserToUserInd_s1_s2 (TCV_B_cic))			S1, S2 explicit response
20		+ringing_tone			
21		+B_SEND (USR_m (TCV_B_cic))			3.
22		+B_RECEIVE (USR_m (TCV_B_cic))			3.
23		+B_RECEIVE (ANM_r_AB_User_to_user_info_s3_not_provided (TCV_B_cic))			S3 explicit response
		B_6_3_16_b_call_release			
24		+B_SEND (REL_s_BA_UserToUserInfo (TCV_B_cic))			
25		+B_RECEIVE (RLC_m (TCV_B_cic))			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 and UUS1 (or UUS2) supplementary services.</p> <p>See ISS_V_6_2_15</p> <p>Case b)</p> <pre> access IUT SPB <----setup(UUInf)---- <----IAM(UUInf)----- UUS1, 2, 3 explicit request -----alert(UUInf)----> -----ACM(UUInf)-----> UUS1, 2 explicit response ... ringing tone ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> ---connect(UUInf)---> -----ANM(UUInf)-----> UUS 3 explicit response ... check communication ... <----disc(UUInf)----- <----REL(UUInf)----- -----RLC-----> </pre> <p>Case b)</p> <pre> access SPA SPB <----setup(UUInf)---- <----IAM(UUInf)----- UUS1, 2, 3 explicit request -----alert(UUInf)----> -----ACM(UUInf)-----> UUS1, 2 explicit response ... ringing tone ... <-----user info----- <-----USR----- -----user info-----> -----USR-----> ---connect(UUInf)---> -----ANM(UUInf)-----> UUS 3 explicit response <-----connect ack----- ... check communication ... <----disc(UUInf)----- <----REL(UUInf)----- -----release-----> -----RLC-----> <---release comp----- </pre> <p>1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service 2, 3 request. 2. The Service 1, 2, 3 fields in UUInd are set each to request, not essential. 3. Send/Receive user-to-user information (support of Service 2). Note: Repeat the test case by setting the response of service 1 or 3 requests in CPG, ANM, REL or CON.</p>					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_6_3_17_UUS3_interaction_with_TP_FAR_sent_while_call_is_suspended Group : ISUP_Supplementary_Services/ISS_6_UUS/UUS_UUS3/ Purpose : UUS3 interaction with TP – FAR sent while call is suspended <p>To verify that if the FAR is received while a call is suspended, the IUT returns a FRJ with the Service 3 field in the user-to-user indicators set to "Service 3 not provided".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.3.6.18 /Q.737					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_6_3_17_call_setup, B_ISUP_PTC:B_6_3_17_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_6_3_17_call_suspend, B_ISUP_PTC:B_6_3_17_call_suspend)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_6_3_17_call_release, B_ISUP_PTC:B_6_3_17_call_release)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			sets final verdict
		A_6_3_17_call_setup			
12		+A_access_CALL_SETUP_AB_DEFAULT			
		A_6_3_17_call_suspend			
13		+A_access_RECEIVE (suspend_o_r (1, TSV_CREF1))			
		A_6_3_17_call_release			
14		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
15		+A_access_SEND_CALL_REL_DEFAULT			
		B_6_3_17_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_ISDN ("*B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+ringing_tone			
19		+B_SEND (ANM_m (TCV_B_cic))			
		B_6_3_17_call_suspend			
20		+B_SEND (SUS_user_initiated (TCV_B_cic))			1.
21		+B_SEND (
		FAR_s_AB_With_fac_ind_and_UUI_explicit_non_essential_			
		request_service3 (TCV_B_cic))			
22		+B_RECEIVE (
		FRJ_r_BA_Cause29_and_UUI_service3_response_not_pr			
		vided (TCV_B_cic))			
		B_6_3_17_call_release			
23		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Arrange the data in the IUT so that the user has subscribed to the UUS3 and TP supplementary services.

```

access          SPA          SPB
-----setup-----> -----IAM----->
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
<-----tp-suspend----- <-----SUS-----
... check communication ...
<-----disc----- <-----REL-----
... check communication ...
-----RLC----->

```

```

Implementation
access          IUT          SPB
-----setup-----> -----IAM----->
<---call proceeding---
<-----alert----- <-----ACM-----
... ringing tone ...
<-----connect----- <-----ANM-----
... check communication ...
<-----tp-suspend----- <-----SUS-----
... check communication ...
<-----disc----- <-----REL-----
-----release -----> -----RLC----->
<---release comp-----

```

-
1. Set up a call from UNI at SPA to SPB which has been suspended.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_1_CUG_without_outgoing_access_in_IAM Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG without outgoing access in IAM <p>To verify that the IUT can successfully establish a CUG call by including the CUG interlock code together with an indication of "CUG call, outgoing access not allowed" in the optional forward call indicators in the IAM. The ISUP preference indicator of the forward call indicators in the IAM should be set to "ISUP required all the way".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1 i) /Q.735 Arrange the data in the IUT such that the calling party subscribes to the CUG without outgoing access supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_1_call_setup, B_ISUP_PTC:B_7_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_7_1_call_release, B_ISUP_PTC:B_7_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_7_1_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND (setup_o_s_CUGcall_no_oa (c_COMP01(0,FALSE,TCV_cug_index),0,TSV_CREF1, TSV_BCHNUM1, TSO_CALC_NUM_LENGTH(TSP_NB_B), TSO_HEX_TO_OCTET(TSP_NB_B)))			1.
11		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_7_1_call_release			
14		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
15		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_7_1_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPPr ef_10 ("*B))			2.
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_7_1_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling party subscribes to the CUG without outgoing access supplementary service.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          SPA          SPB
-----setup-----> -----IAM (CUG)----->
(-OA) - with outgoing access not allowed
:
```

```

Implementation
access          IUT          SPB
-----setup-----> -----IAM (CUG)----->
(-OA) - with outgoing access not allowed
<-----alert-----<-----ACM-----
-----connect-----> -----ANM----->
-----disconnect-----> -----REL----->
                        <-----RLC-----
```

-
1. Set up a CUG call from the access specifying a CUG interlock code. The CUG call is with outgoing access not allowed.
 2. CUG call indicator set to CUG call, outgoing access not allowed and IPI set to ISUP required all the way.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_2_CUG_call_outgoing_call_outgoing_access_not_allowed					
Group : ISUP_Supplementary_Services/ISS_7_CUG/					
Purpose : To verify that the IUT can successfully transfer all information related to a CUG call, i.e. CUG interlock code together with an indication of "CUG call, outgoing access not allowed" in the optional forward call indicators in the IAM.					
Configuration : MTC_and_two_ISUP_PTCs					
Default :					
Comments : REFERENCE: 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1 /Q.735					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_call_setup			
9		+A_SEND (IAM_s_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPP ref_10 (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
12		+A_SEND_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPP ref_10 (**B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM (CUG)-----> -----IAM (CUG)-----> (-OA) : <hr/> 1. Initiate a CUG call set up from SPC specifying a CUG interlock code. The CUG call is with outgoing access not allowed. 2. CUGCI set to 'CUG call, outgoing access not allowed'. <hr/> Implementation: TTCN EXCHANGE TTCN !--IAM----->!--IAM----->! !<-----ACM--!<-----ACM--! !.....ringing tone.....! !<-----ANM--!<-----ANM--! !.....communication.....! !--REL----->!--REL----->! !<-----RLC--!<-----RLC--! Note: Make sure Calling Party has CUG service activated.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_3_CUG_call_outgoing_accsess_not_allowed_convert_national_interlock_code_to_international Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : To verify that the IUT can successfully convert a national into an international CUG interlock code (or vice versa) and that the indication "CUG call, outgoing access not allowed" in the optional forward call indicators in the IAM is passed on transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.5.2.3.1; 1.5.2.4.1 /Q.735					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPP ref_10_international (TCV_A_cic)) +A_RECEIVE (ACM_m (TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))		1	
10		A_call_release			
11		+A_SEND_CALL_REL			
12		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_OptionalForwardCallInd_CUGCallInd_11_ISUPP ref_10_national (**B)) +B_SEND (ACM_m (TCV_B_cic)) +B_SEND (ANM_m (TCV_B_cic))			
14		B_call_release			
15		+B_RECEIVE_CALL_REL			
16					
Detailed Comments : SPC SPA SPB -----IAM (CUG)-----> -----IAM (CUG)-----> (-OA) : <hr/> Implementation: <div style="display: flex; justify-content: space-around; margin-top: 10px;"> SPA IUT SPB </div> <pre> -----IAM-----> -----IAM-----> <-----ACM-----<-----ACM-----ringing tone..... <-----ANM-----<-----ANM-----communication..... -----REL-----> -----REL-----> <-----RLC-----<-----RLC----- </pre> <p>1. Initiate a CUG call set up from SPC specifying a CUG interlock code. The CUG call is with</p>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	outgoing access not allowed.
	2. CUGCI set to 'CUG call, outgoing access not allowed' and international CUGIC for OutIE.
	3. CUGCI set to 'CUG call, outgoing access not allowed' and national CUGIC for IncIE.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_7_4_CUG_call_succeeding_network_does_not_support_CUG_receive_facility_rejected Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : To verify that the IUT rejects a CUG call if the contents of the CUG call indicator is set to "CUG call, outgoing access not allowed" in optional forward call indicators in IAM and the succeeding national network does not support CUG. The IUT should respond with a REL with cause #29 "Facility rejected" and include the parameter name in the diagnostics field. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.5.2.4.2 /Q.735, Table 1-1 /Q.735 PRE-TEST CONDITIONS : A route to a network without CUG capability must be available in the IUT					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_call_setup +A_SEND (IAM_s_AB_OptionalForwardCallInd_CUGCallInd_11 (TCV_A_cic))			
7		+A_RECEIVE (REL_r_CauseV_29 (TCV_A_cic))			
8		+A_SEND (RLC_m (TCV_A_cic))			
9		B_call_setup START T_B_STEP			Verify that no message is sent through the exchange
10		? TIMEOUT T_B_STEP		(P)	
11		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments : SPC SPA SPB -----IAM-----> (-OA) with outgoing access not allowed <-----REL----- -----RLC-----> 1. Initiate a CUG call set up from SPC specifying a CUG interlock code. The CUG call is with outgoing access not allowed. 2. Wait for some event, nothing should happen. 3. After timer expiry get the verdict. Implementation: TTCN EXCHANGE TTCN !--IAM----->! not support CUG. !<-----REL--! !--RLC----->! note: Exchange does					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_7_5_CUG_call_outgoing_access_allowed_succeeding_network_does_not_support_CUG					
Group : ISUP_Supplementary_Services/ISS_7_CUG/					
Purpose : To verify that the IUT proceeds with normal call setup if the contents of the CUG call indicator is received as "CUG call, outgoing access allowed" in optional forward call indicators in IAM and the succeeding national network does not support CUG.					
Configuration : MTC_and_two_ISUP_PTCs					
Default :					
Comments : REFERENCE: 1.5.2.4.2 /Q.735, Table 1-1 /Q.735					
PRE-TEST CONDITIONS :					
A route to a network without CUG capability must be available in the IUT					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			sets final verdict
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
9		A_call_setup +A_SEND (IAM_s_AB_OptionalForwardCallInd_CUGCallInd_10_ISUPP ref_10 (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_SEND_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_OptionalForwardCallInd_CUGCallInd_00_ISUPP ref_10 ("*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM (CUG)-----> -----IAM-----> (+OA) with outgoing access allowed : 1. Initiate a CUG call set up from SPC specifying a CUG interlock code. The CUG call is with outgoing access allowed. Implementation: TTCN EXCHANGE TTCN !--IAM----->!--IAM----->! !<-----ACM--!<-----ACM--! !.....ringing tone.....! !<-----ANM--!<-----ANM--! !.....communication.....! !--REL----->!--REL----->! !<-----RLC--!<-----RLC--!					

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*Continued from previous page***Test Case Dynamic Behaviour**

Detailed Comments : ...
:

```
Implementation
access          IUT          SPB
<-----setup----- <----IAM (CUG)-----
                (-OA,-ICB) no incoming calls barred
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
-----disconnect----> -----REL----->
                  <-----RLC----->
```

-
1. Assist a CUG call set up to the access.
 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed.

Continued on next page

Test Case Dynamic Behaviour

2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_8_CUG_call_without_outgoing_access_class_of_called_user_CUG_without_IA_ICB_activated Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call without outgoing access; class of called user: CUG without IA, ICB activated <p>To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 <p>Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).</p>					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_8_call_setup, B_ISUP_PTC:B_7_8_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_8_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		B_7_8_call_setup +B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_00_ISUPPr ef_10_nolA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_55 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : <p>Pre-test conditions Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).</p> <pre> access SPA SPB <-----IAM (CUG)----- (-OA,+ICB) incoming calls barred -----REL(#55)-----> <-----RLC----- </pre> <p>Implementation</p> <pre> access IUT SPB <-----IAM (CUG)----- (-OA,+ICB) incoming calls barred -----REL(#55)-----> <-----RLC----- </pre>					
<p>1. No call set up should be observed on the access side.</p>					

Test Case Name : ISS_V_7_8_CUG_call_without_outgoing_access_class_of_called_user_CUG_without_IA_ICB_activ
ated

Group : ISUP_Supplementary_Services/ISS_7_CUG/

Purpose : CUG call without outgoing access; class of called user: CUG without IA, ICB activated

To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL.

Configuration : MTC and ISUP and access PTCs

Default :

Comments	: ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).
-----------------	--

Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_8_call_setup, B_ISUP_PTC:B_7_8_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
		A_7_8_call_setup			
6		START T_A_STEP			1.Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		B_7_8_call_setup			
9		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_00_ISUPPr ef_10_noIA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_55 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			

Detailed Comments :	Pre-test conditions
	Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).

```

access      SPA      SPB
<-----IAM (CUG)-----
(-OA,+ICB) incoming calls barred
-----REL(#55)----->
<-----RLC----->

```

```

Implementation
access      IUT      SPB
            <-----IAM (CUG)----->
            (-OA,+ICB) incoming calls barred
            -----REL(#55)----->
            <-----RLC----->

```

1. No call set up should be observed on the access side.

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Test Case Dynamic Behaviour

Detailed Comments : ...

2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed.
3. REL with cause #55 "Incoming calls barred within CUG". The location RLN – public network serving the remote user – can also be checked.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_9_CUG_call_with_outgoing_access_class_of_called_user_CUG_without_IA_ICB_activated Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call with outgoing access; class of called user: CUG without IA, ICB activated To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_9_call_setup, B_ISUP_PTC:B_7_9_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_9_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		B_7_9_call_setup +B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUP ref_10_nolA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_55 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB). <pre> access IUT SPB <----IAM (CUG)----- (+OA,+ICB) incoming calls barred -----REL(#55)-----> <-----RLC----- </pre> Implementation <pre> access IUT SPB <----IAM (CUG)----- (+OA,+ICB) incoming calls barred -----REL(#55)-----> <-----RLC----- </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

1. No call set up should be observed on the access side.
2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed.
3. REL with cause #55 "Incoming calls barred within CUG". The location RLN – public network serving the remote user – can also be checked.

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ... :</div> <div><div>Implementation</div><div><div>access</div><div>IUT</div><div>SPB</div></div><div><-----setup-----<-----IAM (CUG)----- (-OA,+IA,-ICB) incoming access allowed, no incoming calls barred -----alert----->-----ACM-----> -----connect----->-----ANM-----> -----disconnect----->-----REL-----> <-----RLC-----</div></div> <div><div>1. Assist a CUG call set up to the access.</div><div>2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed.</div></div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_11_CUG_call_with_outgoing_access_class_of_called_user_CUG_with_IA_and_no_ICB_a ctivated Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call with outgoing access; class of called user: CUG with IA and no ICB activated To verify that the IUT can successfully establish a CUG call with outgoing access. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming Access (IA) and no incoming calls are barred.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_11_call_setup, B_ISUP_PTC:B_7_11_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_7_11_call_release, B_ISUP_PTC:B_7_11_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_7_11_call_setup			
9		+A_access_RECEIVE_setup(TSV_CREF1)			1.
10		+A_access_SEND (alert_o_r (TSV_CREF1))			
11		+A_access_SEND (connect_o_r (TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_7_11_call_release			
13		+A_access_SEND (disconnect_without_component(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_7_11_call_setup			
15		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUP ref_10_IA (TCV_B_cic))			2.
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_7_11_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming Access (IA) and no incoming calls are barred. <div style="text-align: center;"> access SPA SPB <-----setup----- <----IAM (CUG)----- (+OA,+IA,-ICB) incoming access allowed, no incoming calls barred </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...
:

Implementation	IUT	SPB
access		
<-----setup-----	<-----IAM (CUG)-----	
(+OA,+IA,-ICB) incoming access allowed, no incoming calls barred		
-----alert----->	-----ACM----->	
-----connect----->	-----ANM----->	
-----disconnect----->	-----REL----->	
	<-----RLC-----	

-
1. Assist a CUG call set up to the access.
 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_12_CUG_call_without_outgoing_access_class_of_called_user_CUG_with_IA_and_ICB_activated_ Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call without outgoing access; class of called user: CUG with IA and ICB activated To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming access (IA) and the incoming calls are barred (ICB).					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_12_call_setup, B_ISUP_PTC:B_7_12_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_12_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		B_7_12_call_setup +B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPr ef_10_IA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_55 (TCV_B_cic))			
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming access (IA) and the incoming calls are barred (ICB). <pre> access SPA SPB <----IAM (CUG)----- (-OA,+IA,+ICB) incoming access allowed, incoming calls barred -----REL(#55)-----> <-----RLC----- </pre> <hr/> <pre> Implementation access IUT SPB <----IAM (CUG)----- (-OA,+IA,+ICB) incoming access allowed, incoming calls barred -----REL(#55)-----> <-----RLC----- </pre> <hr/>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

1. No call set up should be observed on the access side.
2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed.
3. REL with cause #55 "Incoming calls barred within CUG". The location RLN – public network serving the remote user – can also be checked.

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments** : ...
:

```
Implementation
access          IUT                      SPB
                <-----IAM (CUG)-----
                (+OA,+IA,+ICB) incoming access allowed, incoming calls barred
                -----alert-----> -----ACM----->
                -----connect-----> -----ANM----->
                -----disconnect-----> -----REL----->
                <-----RLC-----
```

-
1. Assist a CUG call set up to the access.
 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_14_CUG_call_without_outgoing_access_class_of_called_user_nonCUG Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call without outgoing access; class of called user: non-CUG <p>To verify that the IUT rejects the CUG call with cause # 87 "User not member of CUG" in the REL.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Called user is not member of CUG.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_14_call_setup, B_ISUP_PTC:B_7_14_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_14_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		B_7_14_call_setup +B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPr ef_10_nonCUG (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_87 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Called user is not member of CUG.					
<pre> access SPA SPB <-----IAM (CUG)----- (-OA) -----REL(#87)-----> <-----RLC----- </pre>					
<pre> Implementation access IUT SPB <-----IAM (CUG)----- (-OA) -----REL(#87)-----> <-----RLC----- </pre>					
1. No call set up should be observed on the access side. 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed. 3. REL with cause #87 "User not member of CUG". The location RLN – public network serving the remote user – can also be checked.					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_15_CUG_call_with_outgoing_access_class_of_called_user_nonCUG Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call with outgoing access; class of called user: non-CUG <p>To verify that the IUT can successfully establish a non-CUG call</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Called user is not member of CUG.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_15_call_setup, B_ISUP_PTC:B_7_15_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_7_15_call_release, B_ISUP_PTC:B_7_15_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_7_15_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			1.
10		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_7_15_call_release			
13		+A_access_SEND (disconnect_without_component(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_7_15_call_setup			
15		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUP_ref_10_nonCUG (TCV_B_cic))			2.
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_7_15_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Called user is not member of CUG. <div style="text-align: center;"> access SPA SPB <-----IAM (CUG)----- (+OA) : </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Implementation
access

IUT

SPB

```
          <----IAM (CUG)----- (+OA)
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
-----disconnect-----> -----REL----->
                        <-----RLC----->
```

-
1. Assist a CUG call set up to the access.
 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_16_NonCUG_call_class_of_called_user_CUG_without_IA Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : Non-CUG call; class of called user: CUG without IA <p>To verify that the IUT rejects the CUG call with cause # 87 " User not member of CUG " in the REL.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1; Table 1-2 /Q.735 Arrange the data in the IUT such that the called party subscribes to CUG.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_16_call_setup, B_ISUP_PTC:B_7_16_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_16_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		B_7_16_call_setup +B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_00_ISUPPr ef_10_noIA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_87 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to CUG.					
<div> <div>access</div> <div>SPA</div> <div>SPB</div> <div><-----IAM-----</div> <div>(non-CUG,-IA) incoming access not allowed</div> <div>-----REL(#87)-----></div> <div><-----RLC-----</div> </div>					
<div> <div>Implementation</div> <div>access</div> <div>IUT</div> <div>SPB</div> <div><-----IAM-----</div> <div>(non-CUG,-IA) incoming access not allowed</div> <div>-----REL(#87)-----></div> <div><-----RLC-----</div> </div>					
1. No call set up should be observed on the access side. 2. Send an IAM for a non-CUG call with ISUP preference indicator in the FCI set to ISUP required all the way. 3. REL with cause #87 "User not member of CUG". The location RLN – public network serving the					

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Test Case Dynamic Behaviour
Detailed Comments : ... remote user – can also be checked.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_17_NonCUG_call_class_of_called_user_CUG_with_IA Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : Non-CUG call; class of called user: CUG with IA <p style="text-align: center;">To verify that the IUT can successfully establish a non-CUG call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 <p style="text-align: center;">Arrange the data in the IUT such that the called party subscribes to CUG with Incoming Access (IA).</p>					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_17_call_setup, B_ISUP_PTC:B_7_17_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_7_17_call_release, B_ISUP_PTC:B_7_17_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_7_17_call_setup			
9		+A_access_RECEIVE_setup(TSV_CREF1)			1.
10		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_7_17_call_release			
13		+A_access_SEND (disconnect_without_component(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_7_17_call_setup			
15		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_00_ISUP_ref_10_IA (TCV_B_cic))			2.
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_7_17_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : <p style="text-align: center;">Pre-test conditions Arrange the data in the IUT such that the called party subscribes to CUG with Incoming Access (IA).</p> <div style="text-align: center;"> access SPA SPB <-----IAM-----> (non_CUG,+IA) incoming access allowed : </div>					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

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Implementation
access          IUT                      SPB
                <-----IAM-----
                (non_CUG,+IA) incoming access allowed
-----alert----->-----ACM----->
-----connect----->-----ANM----->
-----disconnect----->-----REL----->
                <-----RLC-----

```

-
1. Assist a Non-CUG call set up to the access.
 2. Send an IAM for a non-CUG call with ISUP preference indicator in the FCI set to ISUP required all the way.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_18_CUG_call_without_outgoing_access_class_of_called_user_other_CUG_without_IA_ Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call without outgoing access; class of called user: other CUG without IA <p>To verify that the IUT rejects the CUG call with cause # 87 " User not member of CUG " in the REL.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_18_call_setup, B_ISUP_PTC:B_7_18_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_18_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP B_7_18_call_setup		(F)	
9		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPr ef_10_otherCUG_noIA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_87 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.					
<pre> access SPA SPB <----IAM (CUG)----- (-OA,-IA) other CUG, incoming access not allowed -----REL(#87)-----> <-----RLC----- Implementation access IUT SPB <----IAM (CUG)----- (-OA,-IA) other CUG, incoming access not allowed -----REL(#87)-----> <-----RLC----- </pre> <hr/> 1. No call set up should be observed on the access side. 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

CUG call indicator in the OFCI set to CUG call, outgoing access not allowed.

3. REL with cause #87 "User not member of CUG". The location RLN – public network serving the remote user – can also be checked.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_19_CUG_call_with_outgoing_access_class_of_called_user_other_CUG_without_IA Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call with outgoing access; class of called user: other CUG without IA <p>To verify that the IUT rejects the CUG call with cause # 87 " User not member of CUG " in the REL.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_19_call_setup, B_ISUP_PTC:B_7_19_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_19_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP B_7_19_call_setup		(F)	
9		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUPPr ef_10_otherCUG_noIA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_87 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.					
<pre> access SPA SPB <-----IAM (CUG)----- (+OA,-IA) other CUG, incoming access not allowed -----REL(#87)-----> <-----RLC----- </pre>					
<pre> Implementation access IUT SPB <-----IAM (CUG)----- (+OA,-IA) other CUG, incoming access not allowed -----REL(#87)-----> <-----RLC----- </pre>					
1. No call set up should be observed on the access side. 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

CUG call indicator in the OFCI set to CUG call, outgoing access allowed.

3. REL with cause #87 "User not member of CUG". The location RLN – public network serving the remote user – can also be checked.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_20_CUG_call_without_outgoing_access_class_of_called_user_other_CUG_with_IA Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call without outgoing access; class of called user: other CUG with IA <p>To verify that the IUT rejects the CUG call with cause # 87 "User not member of CUG" in the REL.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_20_call_setup, B_ISUP_PTC:B_7_20_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_20_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP B_7_20_call_setup		(F)	
9		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPr ef_10_otherCUG_IA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_87 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.					
<pre> access SPA SPB <----IAM (CUG)----- (-OA,+IA) other CUG, incoming access allowed -----REL(#87)-----> <-----RLC----- Implementation access IUT SPB <----IAM (CUG)----- (-OA,+IA) other CUG, incoming access allowed -----REL(#87)-----> <-----RLC----- </pre>					
1. No call set up should be observed on the access side. 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed.					

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Test Case Dynamic Behaviour	
Detailed Comments :	...
	3. REL with cause #87 "User not member of CUG". The location RLN – public network serving the remote user – can also be checked.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_7_21_CUG_call_with_outgoing_access_class_of_called_user_other_CUG_with_IA Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call with outgoing access; class of called user: other CUG with IA <p>To verify that the IUT can successfully establish a non-CUG call</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 ; Table 1-2 / Q.735 Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_21_call_setup, B_ISUP_PTC:B_7_21_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_7_21_call_release, B_ISUP_PTC:B_7_21_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_7_21_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			1.
10		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
11		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_7_21_call_release			
13		+A_access_SEND (disconnect_without_component(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_7_21_call_setup			
15		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_ISUP_ref_10_otherCUG_IA (TCV_B_cic))			2.
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_7_21_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.					
<div> <div>access</div> <div>SPA</div> <div>SPB</div> <div> <-----IAM (CUG)----- (+OA,+IA) other CUG, incoming access allowed </div> </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

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Implementation
access          IUT          SPB
                <-----IAM (CUG)-----
                (+OA,+IA) other CUG, incoming access allowed
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
-----disconnect-----> -----REL----->
```

-
1. Assist a Non-CUG call set up to the access.
 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_7_22_NonCUG_call_with_CUG_interlock_code_in_IAM Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : Non-CUG call with CUG interlock code in IAM <p>To verify that the IUT rejects the call with cause # 111 "Protocol error, unspecified" in the REL, if a non-CUG call has a CUG interlock code in the IAM.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.2 /Q.735					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_22_call_setup, B_ISUP_PTC:B_7_22_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_22_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		B_PCO ? OTHERWISE CANCEL T_B_STEP B_7_22_call_setup		(F)	
9		+B_SEND (IAM_s_BA_noOptionalForwardCallInd_CUGCallInd_ISUPPre f_10_CUGinterlock_IA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_111 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : <p>Pre-test conditions</p> <p>access SPA SPB <---IAM (CUGIC)--- (non-CUG,+IA) incoming access allowed -----REL(#111)-----> <-----RLC-----</p> <p>Implementation access IUT SPB <---IAM (CUGIC)--- (non-CUG,+IA) incoming access allowed -----REL(#111)-----> <-----RLC-----</p> <p>1. No call set up should be observed on the access side. 2. Send an IAM for a non-CUG call with ISUP preference indicator in the FCI set to ISUP required all the way and a CUG interlock code. There is no OFCI parameter in the IAM. 3. REL with cause #111 "Protocol error, unspecified".</p>					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_7_23_CUG_call_without_interlock_code_in_IAM Group : ISUP_Supplementary_Services/ISS_7_CUG/ Purpose : CUG call without interlock code in IAM <p>To verify that the IUT rejects the CUG call with cause # 111 "Protocol error, unspecified" in the REL, if there is no CUG interlock code in the IAM.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.2 /Q.735					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_7_23_call_setup, B_ISUP_PTC:B_7_23_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_7_23_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		B_PCO ? OTHERWISE CANCEL T_B_STEP B_7_23_call_setup		(F)	
9		+B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_10_SUPPr ef_10_noCUGinterlock_IA (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_111 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions <pre> access SPA SPB <---IAM (CUGIC)---- (+OA,+IA,-ICB) incoming access allowed, no incoming calls barred -----REL(#111)----> <-----RLC----- </pre> <pre> Implementation access IUT SPB <---IAM (CUGIC)---- (+OA,+IA,-ICB) incoming access allowed, no incoming calls barred -----REL(#111)----> <-----RLC----- </pre> 1. No call set up should be observed on the access side. 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access allowed. There is no CUGIC parameter in the IAM.					

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Test Case Dynamic Behaviour	
Detailed Comments :	...
	3. REL with cause #111 "Protocol error, unspecified".

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_8_1_Sending_the_called_subaddress_in_the_access_transport_parameter Group : ISUP_Supplementary_Services/ISS_8_SUB/ Purpose : Sending the called sub-address in the access transport parameter <p>To verify that the IUT can include the called sub-address in the access transport parameter in the IAM.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 8.5.2.1.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_8_1_call_setup, B_ISUP_PTC:B_8_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_8_1_call_release, B_ISUP_PTC:B_8_1_call_release)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
		A_8_1_call_setup			
8		+DSS1_Preamble			
9		+ A_access_SEND (setup_o_s_called_subaddress (0,TSV_CREF1,TSV_BCHNUM1, TSO_HEX_TO_OCTET(TSP_NB_B), TSP_SUB_B))			1.
10		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
11		+A_RECEIVE (alert_o_r (TSV_CREF1))			
12		+A_RECEIVE (connect_o_r (TSV_CREF1))			
		A_8_1_call_release			
13		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_8_1_call_setup			
15		+ B_RECEIVE_cic (IAM_r_AB_Access_transport_parameter_subaddress ('**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_8_1_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions <div style="display: flex; justify-content: space-around; align-items: center;"> access SPA SPB </div> <div style="display: flex; justify-content: space-around; align-items: center;"> -----setup-----> -----IAM-----> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> : </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Implementation			
access	IUT		SPB
-----setup----->		-----IAM----->	
<-----alert-----	<-----	ACM-----	
-----connect----->		-----ANM----->	
-----disconnect----->		-----REL----->	
		<-----RLC-----	

1. Set up a call from the access with a called sub-address.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_8_2_Access_transport_parameter_passed_transparently Group : ISUP_Supplementary_Services/ISS_8_SUB/ Purpose : To verify that the contents of the access transport parameter is passed on transparently in the IAM. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 8.5.2.2.1; 8.5.2.3.1; 8.5.2.4.1 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+postamble			sets final verdict
7		A_call_setup + A_SEND (IAM_s_AB_Access_transport_parameter (TCV_A_cic))		1	
8		+A_RECEIVE (ACM_m (TCV_A_cic))			
9		+A_RECEIVE (ANM_m (TCV_A_cic))			
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup + B_RECEIVE_cic (IAM_r_AB_Access_transport_parameter ('*'B))			
12		+B_SEND (ACM_m (TCV_B_cic))			
13		+B_SEND (ANM_m (TCV_B_cic))			
14		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> 1. The PTC will initiate a call set up with the expected parameters.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_8_3_Receiving_the_called_subaddress_in_the_access_transport_parameter Group : ISUP_Supplementary_Services/ISS_8_SUB/ Purpose : Receiving the called sub-address in the access transport parameter <p>To verify that a call may be successfully established if the IAM contains the sub-address in the access transport parameter and that the called sub-address is passed on to the user network interface.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 8.5.2.5.1 /Q.731 Arrange the data in the IUT such that the called party subscribes to the SUB supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_8_3_call_setup, B_ISUP_PTC:B_8_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_8_3_call_release, B_ISUP_PTC:B_8_3_call_release)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
		A_8_3_call_setup			
8		+ A_access_RECEIVE_setup(TSV_CREF1)			
9		+A_access_SEND (alert_o_r (TSV_CREF1))			
10		+A_access_SEND (connect_o_r (TSV_CREF1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_8_3_call_release			
12		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
13		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_8_3_call_setup			
14		+ B_SEND (IAM_s_BA_Access_transport_parameter_subaddress (TCV_B_cic))			1.
15		+B_RECEIVE (ACM_m (TCV_B_cic))			
16		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_8_3_call_release			
17		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party subscribes to the SUB supplementary service. <div style="text-align: center;"> access SPA SPB <-----setup----- <-----IAM----- : </div>					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
Implementation		
access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
-----connect----->	-----ANM----->	
-----disconnect----->	-----REL----->	
	<-----RLC-----	
<hr/>		
1. Set up a call to the access with the ATP parameter containing the called sub-address.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_8_4_Receiving_the_called_subaddress_if_it_is_not_supported_at_the_destination Group : ISUP_Supplementary_Services/ISS_8_SUB/ Purpose : Receiving the called sub-address if it is not supported at the destination To verify that a call may be successfully established if the IAM contains the sub-address in the access transport parameter and the destination address does not subscribe to the SUB supplementary service. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 8.5.2.5.2 /Q.731;2.1.1.6/Q.764 Arrange the data in the IUT such that the called party does not subscribe to the SUB supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_8_4_call_setup, B_ISUP_PTC:B_8_4_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_8_4_call_release, B_ISUP_PTC:B_8_4_call_release)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
		A_8_4_call_setup			
8		+ A_access_RECEIVE_setup (TSV_CREF1)			
9		+A_access_SEND (alert_o_r (TSV_CREF1))			
10		+A_access_SEND (connect_o_r (TSV_CREF1))			
11		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_8_4_call_release			
12		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
13		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_8_4_call_setup			
14		+ B_SEND (IAM_s_BA_Access_transport_parameter_subaddress (TCV_B_cic))			1.
15		+B_RECEIVE (ACM_m (TCV_B_cic))			
16		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_8_4_call_release			
17		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the called party does not subscribe to the SUB supplementary service. <div style="text-align: center;"> access SPA SPB <-----setup-----<-----IAM----- : </div>					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
Implementation		
access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
-----connect----->	-----ANM----->	
-----disconnect----->	-----REL----->	
	<-----RLC-----	
<hr/>		
1. Set up a call to the access with the ATP parameter containing the called sub-address.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_8_5_Interaction_with_other_networks_no_notification_is_sent_back_to_the_OLE Group : ISUP_Supplementary_Services/ISS_8_SUB/ Purpose : Interaction with other networks; no notification is sent back to the OLE To verify that the IUT can successfully establish a call by discarding the sub-address if the succeeding network does not support the sub-address or the supplied length is not supported.					
Configuration : MTC_and_ISUP_and_NON_ISUP_PTCs Default : Comments : ISUP 97 reference 8.7 / Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_8_5_call_setup, B_ISUP_PTC:B_8_5_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_8_5_call_release, B_ISUP_PTC:B_8_5_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			sets final verdict
8		A_8_5_call_setup + A_NON_ISUP_CALL_SETUP			
9		A_8_5_call_release +A_NON_ISUP_RECEIVE_CALL_REL			
10		B_8_5_call_setup + B_SEND (1.
11		IAM_s_BA_Access_transport_parameter_non_ISUP (
12		TCV_B_cic)) +B_RECEIVE (ACM_m (TCV_B_cic))			
13		+B_RECEIVE (ANM_m (TCV_B_cic)) B_8_5_call_release +B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions <div style="text-align: center;"> NON-ISUP SPA SPB <-----setup-----<-----IAM----- : </div> <div style="text-align: center;"> Implementation NON-ISUP IUT SPB <-----setup-----<-----IAM----- ----->-----ACM-----> ----->-----ANM-----> <-----REL----- -----RLC-----> </div> 1. Set up a call to a network which does not support the Sub-addressing supplementary service					

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Test Case Dynamic Behaviour
Detailed Comments : ... or which cannot support the sub-address length supplied.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_1_Successful_MCID_request Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : Successful MCID request <p>To verify that the IUT can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included" and the calling party number included.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_1_call_setup, B_ISUP_PTC:B_9_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_1_MCID, B_ISUP_PTC:B_9_1_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_1_reply, B_ISUP_PTC:B_9_1_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_1_call_release, B_ISUP_PTC:B_9_1_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_1_call_setup			
11		+DSS1_Preamble			
12		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF1))			1
13		+A_access_RECEIVE (call_proceeding_o_r(TSV_CREF1))			
		A_9_1_MCID			
14		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
		A_9_1_reply			
15		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_9_1_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1,16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_1_call_setup			
18		+ B_RECEIVE_cic (IAM_r_AB ('**B))			2
19		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			3
		B_9_1_MCID			
20		+ B_RECEIVE (IRS_MCID_r_response_indicators (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (ACM_m (TCV_B_cic))			
		B_9_1_reply			
22		+B_SEND (ANM_m (TCV_B_cic))			
		B_9_1_call_release			
23		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions <pre> access IUT SPB -----setup-----> -----IAM-----> <-----IDR----- -----IRS-----> : access IUT SPB -----setup-----> -----IAM-----> <----call_proceeding-- <-----IDR----- -----IRS-----> -----disconnect----> -----REL-----> <-----release-----<-----RLC----- -----release_complete--> </pre> <hr/> 1. Set up a call from the access with or without a calling party number. 2. IAM may or may not contain calling party number. 3. IDR may be requested even if the initial IAM contained calling party number.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_2_Successful_MCID_request_after_ACM Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : Successful MCID request – after ACM <p>To verify that the IUT will accept and reply correctly to an MCID request after ACM has been received. The IUT should reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included" and the calling party number included. Note: This situation may occur e.g. if the call has been forwarded before reaching the destination.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_2_call_setup, B_ISUP_PTC:B_9_2_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_2_MCID, B_ISUP_PTC:B_9_2_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+ringing_tone			
7		CREATE (A_ACCESS_PTC:A_9_2_reply, B_ISUP_PTC:B_9_2_reply)			
8		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
9		CREATE (A_ACCESS_PTC:A_9_2_call_release, B_ISUP_PTC:B_9_2_call_release)			
10		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
11		+postamble			Sets final verdict
		A_9_2_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF1))		1	
14		+A_access_RECEIVE (call_proceeding_o_r(TSV_CREF1))			
		A_9_2_MCID			
15		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
		A_9_2_reply			
16		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_9_2_call_release			
17		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
18		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_2_call_setup			
19		+ B_RECEIVE_cic (IAM_r_AB (**B))			
20		+B_SEND (ACM_m (TCV_B_cic))			
		B_9_2_MCID			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			2
22		+ B_RECEIVE (IRS_MCID_r_response_indicators (TCV_B_cic))			
		B_9_2_reply			
23		+B_SEND (ANM_m (TCV_B_cic))			
		B_9_2_call_release			
24		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions <pre> access IUT SPB -----setup-----> -----IAM-----> <-----alert----- <-----ACM----- ... ringing tone ... <-----IDR----- -----IRS-----> : </pre> <pre> access IUT SPB -----setup-----> -----IAM-----> <----call_proceeding-- <-----IDR----- -----IRS-----> -----disconnect-----> -----REL-----> <-----release----- <-----RLC----- -----release_complete--> </pre> <hr/> 1. Set up a call from the access. 2. IRS containing the number of calling party number .					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_3_Successful_MCID_request_with_calling_subaddress Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : Successful MCID request with calling sub-address <p>To verify that the IUT can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and a calling sub-address in the access transport parameter.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_3_call_setup, B_ISUP_PTC:B_9_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_3_MCID, B_ISUP_PTC:B_9_3_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_3_reply, B_ISUP_PTC:B_9_3_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_3_call_release, B_ISUP_PTC:B_9_3_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_3_call_setup			
11		+DSS1_Preamble			
12		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF1))			1, 2
13		+A_access_RECEIVE (call_proceeding_o_r(TSV_CREF1))			
		A_9_3_MCID			
14		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
		A_9_3_reply			
15		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_9_3_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1,16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_3_call_setup			
18		+ B_RECEIVE_cic (IAM_r_AB ('**B))			
19		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_3_MCID			
20		+ B_RECEIVE (IRS_MCID_r_Calling_number_and_subaddress (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (ACM_m (TCV_B_cic))			
		B_9_3_reply			
22		+B_SEND (ANM_m (TCV_B_cic))			
		B_9_3_call_release			
23		+B_RECEIVE_CALL_REL			
<div>Detailed Comments :<div>Pre-test conditions</div><div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div><-----IDR-----</div><div>-----IRS-----></div><div>:</div></div><div><div>accessIUTSPB</div><div>-----setup-----> -----IAM-----></div><div><----call_proceeding--</div><div><-----IDR-----</div><div>-----IRS-----></div><div>-----disconnect-----> -----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div><div>1. Set up a call from the access with a calling party sub-address.</div><div>2. Calling party sub-address in ATP.</div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_9_4_MCID_request__MCID_not_supported_by_the_OLE Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : MCID request – MCID not supported by the OLE <p>To verify that the IUT rejects a MCID request by sending a IRS with the MCID response indicator set to "MCID not included".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.2/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_4_call_setup, B_ISUP_PTC:B_9_4_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_4_MCID, B_ISUP_PTC:B_9_4_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_4_reply, B_ISUP_PTC:B_9_4_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_4_call_release, B_ISUP_PTC:B_9_4_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_4_call_setup			
11		+DSS1_Preamble			
12		+A_access_SEND(setup_no_calling_party_number(TCV_flag_dss1,TSV_CREF1))		1	
13		+A_access_RECEIVE (call_proceeding_o_r(TSV_CREF1))			
		A_9_4_MCID			
14		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
		A_9_4_reply			
15		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_9_4_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1,16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_4_call_setup			
18		+ B_RECEIVE_cic (IAM_r_AB ('**B))			
19		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_4_MCID			
20		+ B_RECEIVE (IRS_r_AB_No_MCID (TCV_B_cic))			
21		+B_SEND (ACM_m (TCV_B_cic))			
		B_9_4_reply			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_SEND (ANM_m (TCV_B_cic))			
		B_9_4_call_release			
23		+B_RECEIVE_CALL_REL			
<div>Detailed Comments :<div>Pre-test conditions</div><div><div>accessIUTSPB</div><div>-----setup----->-----IAM-----></div><div><-----IDR-----</div><div>-----IRS-----></div><div>:</div><div><div>accessIUTSPB</div><div>-----setup----->-----IAM-----></div><div><----call_proceeding--</div><div><-----IDR-----</div><div>-----IRS-----></div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div><div>1. Set up a call from the access.</div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_5_a_MCID_info_passed_transparently Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : To verify that a received IDR is transferred transparently to the preceding exchange and the subsequent IRS is transferred transparently to the succeeding exchange. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.3.1 /ETS 300 356-11					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (IDR_r_BA_MCID_request_indicators (TCV_A_cic))			
11		+ A_SEND (IRS_MCID_s_response_indicators (TCV_A_cic))			
12		+A_RECEIVE (ACM_m (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+ B_RECEIVE_cic (IAM_r_AB ('**B'))			
16		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
17		+ B_RECEIVE (IRS_MCID_r_response_indicators (TCV_B_cic))			
18		+B_SEND (ACM_m (TCV_B_cic))			
19		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----IDR----- <-----IDR----- -----IRS-----> -----IRS-----> : 1. The PTC will initiate a call set up. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----IDR-- <-----IDR-- --IRS-----> --IRS----->					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div><div> <-----ACM-- <-----ACM-- </div><div> <-----ANM-- <-----ANM-- </div><div> <-----REL-- <-----REL-- </div><div> -----RLC--> -----RLC--> </div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_5_b_MCID_info_passed_transparently Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : To verify that a received IDR is transferred transparently to the preceding exchange and the subsequent IRS is transferred transparently to the succeeding exchange. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.3.1 /ETS 300 356-11					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
		A_call_setup			
9		+ A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (IDR_r_BA_MCID_request_indicators (TCV_A_cic))			
12		+ A_SEND (IRS_MCID_s_response_indicators (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+ B_RECEIVE_cic (IAM_r_AB ('**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
18		+ B_RECEIVE (IRS_MCID_r_response_indicators (TCV_B_cic))			
19		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM-----<-----ACM----- <-----IDR-----<-----IDR----- -----IRS-----> -----IRS-----> : 1. The PTC will initiate a call set up. Implementation: TTCN EXCHANGE TTCN --IAM-----> --IAM-----> <-----ACM-- <-----ACM-- <-----IDR-- <-----IDR--					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div> --IRS-----> --IRS-----> </div> <div><-----ANM--<-----ANM-- </div> <div><-----REL--<-----REL-- </div> <div>--RLC----->--RLC-----> </div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_6_MCID_info_passed_and_set_correctly Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : To verify that a received IDR is transferred transparently into the national network (NOT PICS A.4/1), the subsequent IRS being transferred into the international network so that the country code in the address signals of the calling party number is added and the nature of address indicator is set to "international number". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.4.1 /ETS 300 356-11					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
7		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC:A_step4, B_ISUP_PTC:B_step4)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+postamble			sets final verdict
11		A_call_setup + A_SEND (IAM_s_AB_CallingPartyNumber_national (TCV_A_cic)) A_call_release			
12		START T_A_STEP			Verify that no response is received
13		? TIMEOUT T_A_STEP		(P)	
14		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
15		A_step3 +A_RECEIVE (ACM_m(TCV_A_cic))			
16		+A_RECEIVE (ANM_m (TCV_A_cic))			
17		A_step4 +A_RECEIVE_CALL_REL			
18		B_call_setup + B_RECEIVE_cic (IAM_r_AB_Calling_party_number_own_country_without_pre fix ('**B))			
19		B_call_release +B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
20		+ B_RECEIVE (IRS_MCID_r_Calling_party_number_even_international (TCV_B_cic))			
21		B_step3 +B_SEND (ACM_m(TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_SEND (ANM_m (TCV_B_cic))			
		B_step4			
23		+B_SEND_CALL_REL			
<div><div>Detailed Comments</div><div>: SPC national SPA international SPB -----IAM-----> -----IAM-----> <-----IDR-----< -----IDR-----< -----IRS-----> -----IRS-----> : 1. The PTC will initiate a call set up with the expected parameters. 2. The IDR request is transferred into the national network. 3. The IRS is received from the national network having the calling party number coded as an "international number".</div></div> <div><div>Implementation:</div><div><div>TTCN</div><div>EXCHANGE</div><div>TTCN</div><div> --IAM-----> --IAM-----> <-----IDR-- --IRS-----> <-----ACM-- <-----ACM-- --ANM-----> --ANM-----> <-----REL-- <-----REL-- --RLC-----> --RLC-----> </div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_9_7_MCID_request_rejected_by_outgoing_international_exchange Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : To verify that the outgoing international exchange rejects a MCID request by sending an IRS with the MCID response indicator set to "MCID not included". Note: The test case checks the behaviour of the IUT if the national network does not support MCID. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.4.2 /ETS 300 356-11					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup + A_SEND (IAM_s_AB_no_calling_party_number (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup + B_RECEIVE_cic (IAM_r_AB_Calling_party_number_no_address_signals ('**B))			
14		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
15		+ B_RECEIVE (IRS_r_AB_No_MCID (TCV_B_cic))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC national SPA international SPB <pre> -----IAM-----> -----IAM-----> <-----IDR----- -----IRS-----> </pre> : <hr/> 1. The PTC provides the stimulus for normal call setup. (Calling party number not included) Note: The MCID request in this case is assumed to stop at gateway and not have any impact on the signalling in the national network.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_8_MCID_info_passed_and_set_correctly_test Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : To verify that a received IDR is transferred transparently into the international network and the subsequent IRS is transferred into the national network so that the country code in the address signals of the calling party number is removed if it is the network's own country code and the nature of address indicator is set in this case to "national (significant) number". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.5.1 /ETS 300 356-11					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
7		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
8		+check_communication			
9		CREATE (A_ISUP_PTC:A_step4, B_ISUP_PTC:B_step4)			
10		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
11		+check_idle			
12		+postamble			sets final verdict
		A_call_setup			
13		+ A_SEND (IAM_s_AB_with_own_country_code (TCV_A_cic))			
		A_call_release			
14		START T_A_STEP			Verify that no response is received
15		? TIMEOUT T_A_STEP		(P)	
16		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		A_step3			
17		+A_RECEIVE (ACM_m(TCV_A_cic))			
18		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_step4			
19		+A_RECEIVE_CALL_REL			
		B_call_setup			
20		+ B_RECEIVE_cic (IAM_r_AB_National_calling_party_number ('**B))			
		B_call_release			
21		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
22		+ B_RECEIVE (IRS_MCID_r_Calling_party_number_even_national (TCV_B_cic))			
		B_step3			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+B_SEND (ACM_m(TCV_B_cic))			
24		+B_SEND (ANM_m (TCV_B_cic))			
		B_step4			
25		+B_SEND_CALL_REL			

Detailed Comments : SPC international SPA national SPB

```

-----IAM-----> -----IAM----->
<-----IDR----- <-----IDR-----
-----IRS-----> -----IRS----->
:

```

1. The PTC will initiate a call set up with the expected parameters.
2. The country code is expected to be stripped off and the number format converted to national (significant) number.

Implementation:

```

TTCN                                EXCHANGE                                TTCN
|---IAM----->|---IAM----->|
|                                     |<-----IDR--|
|                                     |---IRS----->|
|<-----ACM--|<-----ACM--|
|<-----ANM--|<-----ANM--|
|<-----REL--|<-----REL--|
|---RLC----->|---RLC----->|

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_9_9_MCID_request_MCID_not_supported_by_Cp_NatNetw_adding_info Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : To verify that the international incoming gateway can modify the MCID response indicator set to "MCID not included" into "MCID included" and can include the available information in the calling party number. Note: The known part of the calling party number is sent with the address incomplete indicator set to "incomplete". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.5.2 /ETS 300 356-11					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			sets final verdict
9		A_call_setup			
10		+ A_SEND (IAM_s_AB (TCV_A_cic))			1
11		+A_RECEIVE (IDR_MCID_r_request_indicators (TCV_A_cic))			
12		+ A_SEND (IRS_MCID_s_Calling_party_number_even_international_incomplete (TCV_A_cic))			
13		+A_RECEIVE (ACM_m (TCV_A_cic))			
14		+A_RECEIVE (ANM_m (TCV_A_cic))			
15		A_call_release			
16		+A_RECEIVE_CALL_REL			
17		B_call_setup			
18		+ B_RECEIVE_cic (IAM_r_AB ('**B))			
19		+B_SEND (IDR_MCID_s_request_indicators (TCV_B_cic))			
20		+ B_RECEIVE (IRS_MCID_r_Calling_party_number_even_national_incomplete (TCV_B_cic))			
		+B_SEND (ACM_m (TCV_B_cic))			
		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
		+B_SEND_CALL_REL			
Detailed Comments : SPC international SPA national SPB -----IAM-----> -----IAM-----> <-----IDR-----< -----IDR-----< -----IRS-----> -----IRS-----> : Implementation:					

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Test Case Dynamic Behaviour		
Detailed Comments : ...	SPA	IUT
	-----IAM----->	-----IAM----->
	<-----IDR-----	<-----IDR-----
	-----IRS----->	-----IRS----->
	<-----ACM-----	<-----ACM-----
	<-----ANM-----	<-----ANM-----
	<-----REL-----	<-----REL-----
	-----RLC----->	-----RLC----->
	1. The PTC will initiate a call set up with the expected parameters.	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_10_a_DLE_records_call_details Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : DLE records call details <p>To verify that the DLE can successfully record the calling party number and optionally the calling sub-address if received in the IAM or in the IRS.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.5.1 a)/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_10_a_call_setup, B_ISUP_PTC:B_9_10_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_10_a_MCID, B_ISUP_PTC:B_9_10_a_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_10_a_reply, B_ISUP_PTC:B_9_10_a_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+check_MCID_recordings		3	
9		CREATE (A_ACCESS_PTC:A_9_10_a_call_release, B_ISUP_PTC:B_9_10_a_call_release)			
10		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
11		+postamble			Sets final verdict
12		A_9_10_a_call_setup +A_access_RECEIVE_setup (TSV_CREF1)			
13		A_9_10_a_MCID +A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
14		A_9_10_a_reply +A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
15		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
16		A_9_10_a_call_release +A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
18		B_9_10_a_call_setup + B_SEND (IAM_s_BA_Calling_number_access_transport (TCV_B_cic))			1, 2
19		B_9_10_a_MCID +B_RECEIVE (ACM_m (TCV_B_cic))			
20		B_9_10_a_reply +B_RECEIVE (ANM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		B_9_10_a_call_release +B_RECEIVE_CALL_REL			
<div><div>Detailed Comments :</div><div><div>Pre-test conditions</div><div>Arrange the data in the IUT so that the called user has subscribed to MCID service.</div></div><div><div>Case a)</div><div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>:</div></div></div><div><div>accessIUTSPB</div><div><-----setup-----<-----IAM-----</div><div>-----alert----->-----ACM-----></div><div>-----connect----->-----ANM-----></div><div><---connect_ack-----</div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div><div><div>1. Assist setup to the access.</div><div>2. CgPN & sub-address in ATP.</div><div>3. MCID recordings should be kept while in active phase of call.</div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_10_b_DLE_records_call_details Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : DLE records call details <p>To verify that the DLE can successfully record the calling party number and optionally the calling sub-address if received in the IAM or in the IRS.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.5.1 a)/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_10_b_call_setup, B_ISUP_PTC:B_9_10_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_10_b_MCID, B_ISUP_PTC:B_9_10_b_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_10_b_reply, B_ISUP_PTC:B_9_10_b_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_10_b_call_release, B_ISUP_PTC:B_9_10_b_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_10_b_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_10_b_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_10_b_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_10_b_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_10_b_call_setup			
17		+ B_SEND (IAM_s_BA_No_calling_number (TCV_B_cic))			1, 2
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_10_b_MCID			
19		+ B_SEND (IRS_MCID_r_Calling_number_and_subaddress (TCV_B_cic))			3
20		+B_RECEIVE (ACM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		B_9_10_b_reply +B_RECEIVE (ANM_m (TCV_B_cic))			
22		B_9_10_b_call_release +B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to MCID service.</p> <p>Case b)</p> <pre> access IUT SPB <-----setup----- <-----IAM----- -----IDR-----> <-----IRS----- : </pre> <pre> access IUT SPB <-----setup----- <-----IAM----- -----IDR-----> <-----IRS----- -----alert-----> -----ACM-----> -----connect-----> -----ANM-----> <---connect_ack----- -----disconnect----> -----REL-----> <-----release-----<-----RLC----- -----release_complete--> </pre> <hr/> <ol style="list-style-type: none"> 1. Assist setup to the access. 2. No number information in IAM . 3. Number information in IRS (CgPN and Sub in ATP) . 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_11_DLE_requests_call_details Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : DLE requests call details <p>To verify that the DLE can successfully request the calling party number and optionally the calling sub-address by sending an IDR, if there is no calling party number included in the IAM.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.5.1 b)/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_11_call_setup, B_ISUP_PTC:B_9_11_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_11_MCID, B_ISUP_PTC:B_9_11_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_11_reply, B_ISUP_PTC:B_9_11_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_11_call_release, B_ISUP_PTC:B_9_11_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_11_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_11_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_11_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_11_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_11_call_setup			
17		+ B_SEND (IAM_s_BA_No_calling_number (TCV_B_cic))			1
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_11_MCID			
19		+ B_SEND (IRS_MCID_r_Calling_number_and_subaddress (TCV_B_cic))			2
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_9_11_reply			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_9_11_call_release			
22		+B_RECEIVE_CALL_REL			
<div><div>Detailed Comments :</div><div><div>Pre-test conditions</div><div>Arrange the data in the IUT so that the called user has subscribed to MCID service.</div></div><div><div><div><div>access</div><div>IUT</div><div>SPB</div></div><div><div><-----setup-----<-----IAM-----</div><div>-----IDR-----></div><div><-----IRS-----</div></div><div>:</div></div></div><div><div><div><div>access</div><div>IUT</div><div>SPB</div></div><div><div><-----setup-----<-----IAM-----</div><div>-----IDR-----></div><div><-----IRS-----</div></div><div><div>-----alert-----> -----ACM-----></div><div>-----connect-----> -----ANM-----></div><div><---connect_ack-----</div><div>-----disconnect-----> -----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div></div><div><div>1. Set up to the access containing no number information.</div><div>2. Number information is provided.</div></div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_9_12_a_No_MCID_information_after_MCID_request Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : No MCID information after MCID request To verify that the call setup is continued (user is alerted) if an IRS is received without the expected MCID information within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.5.2/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_12_a_call_setup, B_ISUP_PTC:B_9_12_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_12_a_MCID, B_ISUP_PTC:B_9_12_a_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_12_a_reply, B_ISUP_PTC:B_9_12_a_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_12_a_call_release, B_ISUP_PTC:B_9_12_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_12_a_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_12_a_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_12_a_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_12_a_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_12_a_call_setup			
17		+ B_SEND (IAM_s_AB (TCV_B_cic))			1
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_12_a_MCID			
19		+ B_SEND (IRS_s_BA_No_MCID (TCV_B_cic))			2
20		+B_RECEIVE (ACM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		B_9_12_a_reply +B_RECEIVE (ANM_m (TCV_B_cic))			
22		B_9_12_a_call_release +B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to MCID service.</p> <p>Case a)</p> <pre> access IUT SPB <-----setup----- <-----IAM----- -----IDR-----> <-----IRS----- : access IUT SPB <-----setup----- <-----IAM----- -----IDR-----> <-----IRS----- -----alert-----> -----ACM-----> -----connect-----> -----ANM-----> <---connect_ack----- -----disconnect----> -----REL-----> <-----release-----<-----RLC----- -----release_complete--> </pre> <hr/> <p>1. Set up to the access containing no number information. 2. Number information not provided (MCID response indicators = 0, no CgPN given).</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_9_12_b_No_MCID_information_after_MCID_request Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : No MCID information after MCID request <p>To verify that the call setup is continued (user is alerted) if an IRS is received without the expected MCID information within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.5.2/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_12_b_call_setup, B_ISUP_PTC:B_9_12_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_12_b_MCID, B_ISUP_PTC:B_9_12_b_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_12_b_reply, B_ISUP_PTC:B_9_12_b_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_12_b_call_release, B_ISUP_PTC:B_9_12_b_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_12_b_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_12_b_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_12_b_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_12_b_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_12_b_call_setup			
17		+ B_SEND (IAM_s_AB (TCV_B_cic))			1
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_12_b_MCID			
19		+ B_SEND (IRS_MCID_s_Included_no_CPN (TCV_B_cic))			2
20		+B_RECEIVE (ACM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		B_9_12_b_reply +B_RECEIVE (ANM_m (TCV_B_cic))			
22		B_9_12_b_call_release +B_RECEIVE_CALL_REL			
<div>Detailed Comments :</div> <div><div>Pre-test conditions</div><div>Arrange the data in the IUT so that the user has subscribed to MCID service.</div></div> <div><div>Case b)</div><div><div>access</div><div><div>IUT</div><div>SPB</div></div><div><div><-----setup-----</div><div><-----IAM-----</div><div>-----IDR-----></div><div><-----IRS-----</div></div><div>:</div></div></div> <div><div><div>access</div><div><div>IUT</div><div>SPB</div></div><div><div><-----setup-----</div><div><-----IAM-----</div><div>-----IDR-----></div><div><-----IRS-----</div><div>-----alert-----></div><div>-----connect-----></div><div><---connect_ack-----</div><div>-----disconnect-----></div><div><-----release-----></div><div><-----RLC-----</div><div>-----release_complete--></div></div></div><div><div>1. Set up to the access containing no number information.</div><div>2. Number information not provided (MCID response indicators = 1, No CgPN given).</div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_9_13_MCID_timer_T39_expiry Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : MCID timer (T39) expiry <p>To verify that call setup is continued (user is alerted) if no IRS is received within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.5.2/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_13_call_setup, B_ISUP_PTC:B_9_13_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_13_MCID, B_ISUP_PTC:B_9_13_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_13_reply, B_ISUP_PTC:B_9_13_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_13_call_release, B_ISUP_PTC:B_9_13_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_13_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_13_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_13_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_13_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_13_call_setup			
17		+ B_SEND (IAM_s_AB (TCV_B_cic))			1
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_13_MCID			
19		START T_WAIT (TSC_T39)			
20		? TIMEOUT T_WAIT			
21		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_9_13_reply			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_9_13_call_release			
23		+B_RECEIVE_CALL_REL			
<div><div>Detailed Comments :</div><div><div>Pre-test conditions</div><div>Arrange the data in the IUT so that the called user has subscribed to MCID service.</div></div><div><div><div><div>access</div><div>IUT</div><div>SPB</div></div><div><div><-----setup-----<-----IAM-----<-----IDR-----></div><div> </div><div>T39</div><div>-----ACM-----></div></div><div>:</div></div></div><div><div><div><div>access</div><div>IUT</div><div>SPB</div></div><div><div><-----setup-----<-----IAM-----<-----IDR-----></div><div> </div><div>T39</div><div><div>-----alert-----> -----ACM-----></div><div>-----connect-----> -----ANM-----></div><div><---connect_ack-----</div><div>-----disconnect-----> -----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div></div></div><div><div>1. Set up to the access containing no number information.</div></div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_14_Successful_MCID_request_with_additional_calling_party_number Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : Successful MCID request with additional calling party number To verify that the OLE can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and an additional calling party number in the generic number parameter. Note: This implies that a special arrangement exists with the calling user. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.7/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_14_call_setup, B_ISUP_PTC:B_9_14_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_14_MCID, B_ISUP_PTC:B_9_14_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_14_reply, B_ISUP_PTC:B_9_14_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_14_call_release, B_ISUP_PTC:B_9_14_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_14_call_setup			
11		+DSS1_Preamble			
12		+A_access_SEND(setup_valid_calling_party_number (TCV_flag_dss1, TSV_CREF1 , TSV_BCHNUM1))			1, 2
13		+A_access_RECEIVE (call_proceeding_o_r(TSV_CREF1))			
		A_9_14_MCID			
14		+A_access_RECEIVE (alert_o_r(TSV_CREF1))			
		A_9_14_reply			
15		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_9_14_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_14_call_setup			
18		+ B_RECEIVE_cic (IAM_r_AB ('**B))			
19		+B_SEND (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_14_MCID			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+ B_RECEIVE (IRS_MCID_r_Calling_number_and_generic_number (TCV_B_cic))			
21		+B_SEND (ACM_m (TCV_B_cic))			
22		B_9_14_reply +B_SEND (ANM_m (TCV_B_cic))			
23		B_9_14_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the additional calling party number information is available <pre> access IUT SPB -----setup-----> -----IAM-----> <-----IDR----- -----IRS-----> : access IUT SPB -----setup-----> -----IAM-----> <-----call_proceeding-- <-----IDR----- -----IRS-----> -----disconnect-----> -----REL-----> <-----release-----<-----RLC----- -----release_complete--> </pre> <hr/> 1. Set up a call from the access. 2. CgPN & addCgPN in GenNb.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_15_a_MCID_interaction_with_DDI Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : MCID interaction with DDI <p>To verify that the calling party number, the called party number with DDI are registered if provided.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.9 / Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_15_a_call_setup, B_ISUP_PTC:B_9_15_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_15_a_MCID, B_ISUP_PTC:B_9_15_a_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_15_a_reply, B_ISUP_PTC:B_9_15_a_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_15_a_call_release, B_ISUP_PTC:B_9_15_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_15_a_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_15_a_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_15_a_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_15_a_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_15_a_call_setup			
17		+ B_SEND (IAM_s_BA_No_calling_number (TCV_B_cic))			1
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_15_a_MCID			
19		+ B_SEND (IRS_MCID_r_response_indicators (TCV_B_cic))			
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_9_15_a_reply			
21		+B_RECEIVE (ANM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		B_9_15_a_call_release +B_RECEIVE_CALL_REL			
<div><div>Detailed Comments :</div><div><div>Pre-test conditions</div><div>Arrange the data in the IUT so that the called user has subscribed to the MCID and DDI services</div></div><div><div>Case a)</div><div><div>access</div><div>IUT</div><div>SPB</div><div><-----setup-----<-----IAM-----</div><div>:</div></div></div><div><div><div>access</div><div>IUT</div><div>SPB</div><div><-----setup-----<-----IAM-----</div><div>-----IDR-----></div><div><-----IRS-----</div><div>-----alert----->-----ACM-----></div><div>-----connect----->-----ANM-----></div><div><---connect_ack-----</div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div><div><div>1. Assist setup to the access.</div></div></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_15_b_MCID_interaction_with_DDI Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : MCID interaction with DDI <p>To verify that the calling party number, the called party number with DDI are registered if provided.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.9 / Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_15_b_call_setup, B_ISUP_PTC:B_9_15_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_15_b_MCID, B_ISUP_PTC:B_9_15_b_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_15_b_reply, B_ISUP_PTC:B_9_15_b_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:A_9_15_b_call_release, B_ISUP_PTC:B_9_15_b_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		A_9_15_b_call_setup			
11		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_15_b_MCID			
12		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_15_b_reply			
13		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_15_b_call_release			
15		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
16		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_15_b_call_setup			
17		+ B_SEND (IAM_s_BA_No_calling_number (TCV_B_cic))			1, 2
18		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_15_b_MCID			
19		+ B_SEND (IRS_MCID_r_response_indicators (TCV_B_cic))			3
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_9_15_b_reply			
21		+B_RECEIVE (ANM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		B_9_15_b_call_release +B_RECEIVE_CALL_REL			
<div>Detailed Comments :</div> <div>Pre-test conditions</div> <div>Arrange the data in the IUT so that the called user has subscribed to the MCID and DDI services</div> <div><div>Case b)</div><div>access</div><div><div>IUT</div><div>SPB</div><div><-----setup-----<-----IAM-----<-----IDR-----<-----IRS-----</div></div></div> <div>:</div> <div><div>access</div><div><div>IUT</div><div>SPB</div><div><-----setup-----<-----IAM-----<-----IDR-----<-----IRS-----</div></div><div>-----alert----->-----ACM-----></div><div>-----connect----->-----ANM-----></div><div><---connect_ack-----</div><div>-----disconnect----->-----REL-----></div><div><-----release-----<-----RLC-----</div><div>-----release_complete--></div></div> <div><div>1. Assist setup to the access.</div><div>2. No number information in IAM.</div><div>3. Number information in IRS (with DDI).</div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_9_16_MCID_interaction_with_diversion_services Group : ISUP_Supplementary_Services/ISS_9_MCID/ Purpose : MCID interaction with diversion services <p>To verify that besides the calling party number, the original called number and the redirecting number are registered if provided. Note: A call diversion service has been activated for this call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.10/ Q.731.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_9_16_call_setup, B_ISUP_PTC:B_9_16_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:A_9_16_MCID, B_ISUP_PTC:B_9_16_MCID)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:A_9_16_reply, B_ISUP_PTC:B_9_16_reply)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+check_MCID_recordings			2
9		CREATE (A_ACCESS_PTC:A_9_16_call_release, B_ISUP_PTC:B_9_16_call_release)			
10		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
11		+postamble			Sets final verdict
		A_9_16_call_setup			
12		+A_access_RECEIVE_setup (TSV_CREF1)			
		A_9_16_MCID			
13		+A_access_SEND (alert_o_s(TCV_flag_dss1,TSV_CREF1))			
		A_9_16_reply			
14		+A_access_SEND (connect_o_s(TCV_flag_dss1,TSV_CREF1))			
15		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_9_16_call_release			
16		+A_access_SEND(disconnect_without_component(TCV_flag_dss1,TSV_CREF1, 16))			
17		+A_access_RECEIVE_CALL_REL (release_o_r(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
		B_9_16_call_setup			
18		+ B_SEND (IAM_s_AB (TCV_B_cic))			1
19		+B_RECEIVE (IDR_s_BA_MCID_request_indicators (TCV_B_cic))			
		B_9_16_MCID			
20		+ B_SEND (IRS_MCID_r_response_indicators (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_9_16_reply			
22		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_9_16_call_release			
23		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the user has subscribed to MCID <pre> access IUT SPB <-----setup----- <-----IAM----- : access IUT SPB <-----setup----- <-----IAM----- -----IDR-----> <-----IRS----- -----alert-----> -----ACM-----> -----connect-----> -----ANM-----> <---connect_ack----- -----disconnect-----> -----REL-----> <-----release----- <-----RLC----- -----release_complete--> </pre> <hr/> 1. Assist setup to the access. 2. MCID recordings should be kept while in active phase of call.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_1_Requirement_related_to_echo_control Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Requirement related to echo control To verify that the IUT is able to initiate echo control procedures for the necessary legs when a new call is added to the conference. Note: The used PICS is defined for the basic call (BCall). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.5.2.1.1.1 /Q.734 PRE-TEST CONDITIONS : Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		[TRUE]		I	
Detailed Comments : For further study.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_2_Establishing_a_conference_from_an_active_call Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Establishing a conference from an active call To verify that the IUT can successfully begin the conference from an active call and notify the implied parties correctly. Note: The generic notification indicator set to "conference established" should be sent by the IUT in the CPG. The event indicator should be set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.2 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_2_conf_setup_receive, A_ISUP_PTC:A_10_2_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_2_conf_setup_send, B_ISUP_PTC:B_10_2_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_2_call_release, A_ISUP_PTC:A_10_2_call_release, B_ISUP_PTC:B_10_2_call_release)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		+postamble			Sets final verdict
9		U_10_2_conf_setup_receive +A_access_CONF_setup_receive U_10_2_conf_setup_send +A_access_CONF_setup_send			1
10		U_10_2_call_release +A_access_SEND (disconnect_without_component (TCV_flag_dss1, TSV_CREF2, 16))			3
11		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))			
12		A_10_2_call_setup +A_SEND_CONF A_10_2_call_release +A_RECEIVE_CALL_REL			
13		B_10_2_call_setup +B_RECEIVE_CONF B_10_2_call_release +B_RECEIVE_CALL_REL			2
14					
15					
16					
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service. <div> <div>SPC</div> <div>SPA</div> <div>UNI at A</div> <div>SPA</div> <div>SPB</div> </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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-----IAM-----> --setup(CR2)-->
<-----ACM----- <--alerting-----
<-----ANM----- <---connect---
<--CPG(hold)----- <-----info-----

                                --setup(CR1)--> -----IAM----->
                                <--alerting----- <-----ACM-----
                                <---connect--- <-----ANM-----
                                ... check communication ...
                                ---fac(begC)--> -CPG(conf est)---->
-----REL-----> <---disc----- -----disc-----> -----REL----->
-----RLC----->                                     <-----RLC-----

SPA          IUT          UNI          IUT          SPB
-----IAM-----> --setup(CR2)-->
<-----ACM----- <--alerting-----
<-----ANM----- <---connect---
<--CPG(hold)----- <-----info-----

                                --setup(CR1)--> -----IAM----->
                                <--alerting----- <-----ACM-----
                                <---connect--- <-----ANM-----
                                ... check communication ...
                                ---fac(begC)--> -CPG(conf est)---->
-----REL-----> <---disc----- -----disc-----> -----REL----->
-----RLC----->                                     <-----RLC-----

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1. Assist a call set up to UNI at SPB.
 2. Begin the conference and check that notification conference established is received in the CPG.
 3. Release the call at the end terminal and check that all network resources are released.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_3_a_Adding_calls_conferees_to_an_established_conference Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Adding calls (conferees) to an established conference To verify that the IUT is able to add a conferee to a conference and notify the implied parties correctly. Note: The generic notification indicator set to "conference established" should be sent by the IUT to the new affected conferee and the generic notification indicator set to "other party added" to the non-affected conferees. The event indicator in the CPG should be set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.2 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_3_a_conf_setup_receive, A_ISUP_PTC:A_10_3_a_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_3_a_conf_setup_send, B_ISUP_PTC:B_10_3_a_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_3_a_conf_action, A_ISUP_PTC:A_10_3_a_conf_action, B_ISUP_PTC:B_10_3_a_conf_action)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_3_a_call_release, A_ISUP_PTC:A_10_3_a_call_release, B_ISUP_PTC:B_10_3_a_call_release)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		U_10_3_a_conf_setup_receive			
11		+A_access_CONF_setup_receive			
		U_10_3_a_conf_setup_send			
12		+A_access_CONF_setup_send		1	
		U_10_3_a_conf_action			
13		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv (TCV_inv_id, TCV_conf_id)))		3	
14		+A_access_RECEIVE (disconnect_o_r (TSV_CREF2))			
		U_10_3_a_call_release			
15		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))		4	
		A_10_3_a_call_setup			
16		+A_SEND_CONF			
		A_10_3_a_conf_action			
17		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		A_10_3_a_call_release +A_RECEIVE_CALL_REL			2
19		B_10_3_a_call_setup +B_RECEIVE_CONF			
20		B_10_3_a_conf_action +B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
21		B_10_3_a_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.					
<p>Case a)</p> <pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM-----<--alerting----- <-----ANM-----<---connect--- <--CPG(hold)-----<-----info----- --setup(CR1)--> -----IAM-----> <--alerting-----<-----ACM----- <---connect--<-----ANM----- ... check communication ... -----fac(begC)--> -CPG(conf est)-----> <--CPG(conf est)-----<--fac(add C)-- -----disc-----> -CPG(oth pty add)--> <-----REL-----> -----disc-----> -----REL-----> -----RLC-----> -----RLC----- </pre> <p>Case a)</p> <pre> SPA IUT UNI IUT SPB -----IAM-----> --setup(CR2)--> <-----ACM-----<--alerting----- <-----ANM-----<---connect--- <--CPG(hold)-----<-----info----- --setup(CR1)--> -----IAM-----> <--alerting-----<-----ACM----- <---connect--<-----ANM----- ... check communication ... -----fac(begC)--> -CPG(conf est)-----> <--CPG(conf est)-----<--fac(add C)-- -----disc-----> -CPG(oth pty add)--> <-----REL-----> -----disc-----> -----REL-----> -----RLC-----> -----RLC----- </pre> <ol style="list-style-type: none"> 1. Assist a call set up to UNI at SPB. 2. Establish a conference from SPA to SPB. 3. Add a new conferee to the established conference and notify subscriber at SPB by sending him/her other_party_added in the CPG. 4. The conference is released by call clearing by the served user at SPA. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_3_b_Adding_calls_conferees_to_an_established_conference Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Adding calls (conferees) to an established conference To verify that the IUT is able to add a conferee to a conference and notify the implied parties correctly. Note: The generic notification indicator set to "conference established" should be sent by the IUT to the new affected conferee and the generic notification indicator set to "other party added" to the non-affected conferees. The event indicator in the CPG should be set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.2 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_3_b_conf_setup_receive, A_ISUP_PTC:A_10_3_b_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_3_b_conf_setup_send, B_ISUP_PTC:B_10_3_b_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_3_b_conf_start, A_ISUP_PTC:A_10_3_b_receive_conf_start, B_ISUP_PTC:B_10_3_b_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_3_b_conf_action, A_ISUP_PTC:A_10_3_b_conf_action, B_ISUP_PTC:B_10_3_b_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_3_b_call_release, A_ISUP_PTC:A_10_3_b_call_release, B_ISUP_PTC:B_10_3_b_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_3_b_conf_setup_receive +A_access_CONF_setup_receive			
14		U_10_3_b_conf_setup_send +A_access_CONF_setup_send		1	
15		U_10_3_b_conf_start +A_access_CONF_start			
16		U_10_3_b_conf_action +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv (TCV_inv_id, TCV_conf_id)))		3	
17		+A_access_RECEIVE (disconnect_o_r (TSV_CREF2)) U_10_3_b_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+A_access_SEND (disconnect_without_component (TCV_flag_dss1, TSV_CREF1, 16))			4
19		+A_access_SEND (disconnect_without_component (TCV_flag_dss1, TSV_CREF1, 16))			
20		A_10_3_b_call_setup			
21		+A_SEND_CONF			
22		A_10_3_b_receive_conf_start			
23		+A_RECEIVE_CONF_START			
24		A_10_3_b_conf_action			
25		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
26		A_10_3_b_call_release			
27		+A_RECEIVE_CALL_REL			
28		+A_RECEIVE_CALL_REL2			
29		B_10_3_b_call_setup			
30		+B_RECEIVE_CONF			
31		B_10_3_b_receive_conf_start			
32		+B_RECEIVE_CONF_START			
33		B_10_3_b_conf_action			
34		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
35		B_10_3_b_call_release			
36		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.

Case b)

SPC	SPA	UNI at A	SPA	SPB
-----IAM----->	--setup(CR2)->			
<-----ACM-----<---	alerting---			
<-----ANM-----<---	connect---			
<--CPG(hold)-----<---	info-----			
		--setup(CR1)-->	-----IAM----->	
		<--alerting-----<---	ACM-----	
		<---connect-----<---	ANM-----	
			... check communication ...	
		---fac(begC)-->	--CPG(conf est)-->	
<--CPG(conf est)--<---	---fac(add C)--<---		-CPG(oth pty add)->	
---IAM(cic2)----->	--setup(CR3)->			
<-----ACM-----<---	alerting---			
<-----ANM-----<---	connect---			
<--CPG(conf est)--<---	---fac(add C)--<---		-CPG(oth pty add)->	
		-----disc----->		
<-CPG(oth pty add)- (cic1)				
-----REL----->		-----disc----->	-----REL----->	
-----RLC----->			<-----RLC-----	
<--REL(cic2)-----				
-----RLC----->				

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Test Case Dynamic Behaviour

Detailed Comments : ...

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Case b)
SPA          IUT          UNI          IUT          SPB
-----IAM----> --setup(CR2)->
<-----ACM----- <--alerting---
<-----ANM----- <---connect---
<--CPG(hold)----- <-----info-----

                                --setup(CR1)--> -----IAM----->
                                <--alerting----- <-----ACM-----
                                <---connect--- <-----ANM-----
                                ... check communication ...
                                ---fac(begC)--> --CPG(conf est)-->
                                -CPG(oth pty add)->

<--CPG(conf est)- <--fac(add C)--
---IAM(cic2)----> --setup(CR3)->
<-----ACM----- <--alerting-----
<-----ANM----- <---connect---
<--CPG(conf est)-- <--fac(add C)--
                                -CPG(oth pty add)->
                                -----disc----->

<-CPG(oth pty add)- (cic1)

-----REL----->          -----disc-----> -----REL----->
-----RLC----->          <-----RLC-----
<--REL(cic2)-----
-----RLC----->

```

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_4_Joining_the_maximum_number_of_conferees_in_a_conference Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Joining the maximum number of conferees in a conference To verify that the IUT is able to join the maximum allowed number of conferees to a conference and notify the implied parties correctly. Note: The generic notification indicator set to "conference established" should be sent by the IUT to the new affected conferee and the generic notification indicator set to "other party added" to the non-affected conferees. The event indicator in the CPG should be set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.2 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_4_conf_setup_receive, A_ISUP_PTC:A_10_4_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_4_conf_setup_send, B_ISUP_PTC:B_10_4_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_4_conf_action, A_ISUP_PTC:A_10_4_conf_action, B_ISUP_PTC:B_10_4_conf_action)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_4_call_release, A_ISUP_PTC:A_10_4_call_release, B_ISUP_PTC:B_10_4_call_release)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
11		U_10_4_conf_setup_receive +A_access_CONF_setup_receive			
12		U_10_4_conf_setup_send +A_access_CONF_setup_send		1	
13		U_10_4_conf_action +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv (TCV_inv_id, TCV_conf_id)))		3	
14		+A_access_CONF_add_max			
15		+A_access_RECEIVE (disconnect_o_r (TSV_CREF2))			
16		U_10_4_call_release +A_access_SEND (disconnect_without_component (TCV_flag_dss1, TSV_CREF1, 16))		4	
17		A_10_4_call_setup +A_SEND_CONF			
18		A_10_4_conf_action +A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
19		+A_RECEIVE_CONF_ADD_MAX			
20		+A_RECEIVE_CONF_OTH_PTY_ADD			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		A_10_4_call_release			
22		+A_RECEIVE_CALL_REL			
		+A_RECEIVE_CALL_REL2			
23		B_10_4_call_setup			2
		+B_RECEIVE_CONF			
24		B_10_4_conf_action			
		+B_RECEIVE			
		(CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
25		+B_RECEIVE_CONF_ADD_MAX			
		B_10_4_call_release			
26		+B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> <pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM-----< <---alerting--- <-----ANM-----< <---connect--- <-----CPG(hold)---< <---info----- --setup(CR1)--> -----IAM-----> <---alerting---< <-----ACM----- <---connect---< <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)----> --CPG(oth pty add)--> <---CPG(conf est)---< <---fac(add C)--- ***** At this point there are 3 conferees in conference ***** REPEAT for each new conferee -----IAM(cicx)----> -----setup----> x=2,3..n; n=maximum number of conferees-2 <-----ACM-----< <---alerting--- <-----ANM-----< <---connect--- <---CPG(conf est)---< <---fac(add C)--- -----disc-----> <---CPG(oth pty add)---< (cicz) z=1,2...n-1 Release conference: -----REL(cicy)--> y=1, 2n-1 -----disc-----> -----REL-----> -----RLC-----> <-----RLC----- SPA IUT UNI IUT SPB -----IAM-----> --setup(CR2)--> <-----ACM-----< <---alerting--- <-----ANM-----< <---connect--- <-----CPG(hold)---< <---info----- --setup(CR1)--> -----IAM-----> <---alerting---< <-----ACM----- <---connect---< <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)----> --CPG(oth pty add)--> <---CPG(conf est)---< <---fac(add C)--- ***** At this point there are 3 conferees in conference ***** REPEAT for each new conferee -----IAM(cicx)----> -----setup----> x=2,3..n; n=maximum number of conferees-2 <-----ACM-----< <---alerting--- </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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<-----ANM----- <---connect-----
<--CPG(conf est)---- <--fac(add C)----      ---CPG(oth pty add)-->
                        -----disc----->
<-CPG(oth pty add)--- (cicz) z=1,2...n-1
Release conference:
  -----REL(cicy)-->  y=1, 2 .....n-1      -----disc-----> -----REL----->

-----RLC----->                                <-----RLC-----

```

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_5_Isolation_of_party Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Isolation of party <p>To verify that the IUT can successfully isolate a conferee from the conference and notify the implied parties correctly. Note: The generic notification indicator set to "isolated" within call progress should be sent by the IUT to the affected conferee and the generic notification indicator set to "other party isolated" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress". The isolated conferee should not be able to communicate with the rest of the conference.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.3 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_5_conf_setup_receive, A_ISUP_PTC:A_10_5_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_5_conf_setup_send, B_ISUP_PTC:B_10_5_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_5_conf_start, A_ISUP_PTC:A_10_5_receive_conf_start, B_ISUP_PTC:B_10_5_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_5_conf_action, A_ISUP_PTC:A_10_5_conf_action, B_ISUP_PTC:B_10_5_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_5_call_release, A_ISUP_PTC:A_10_5_call_release, B_ISUP_PTC:B_10_5_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_5_conf_setup_receive +A_access_CONF_setup_receive U_10_5_conf_setup_send			
14		+A_access_CONF_setup_send U_10_5_conf_start		1	
15		+A_access_CONF_start U_10_5_conf_action		3	
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_ISOinv (TCV_inv_id, TCV_party_id1)))		4	
17		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_REAinv (TCV_inv_id, TCV_party_id1))) U_10_5_call_release		5	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))			6
		A_10_5_call_setup			
19		+A_SEND_CONF			
		A_10_5_receive_conf_start			
20		+A_RECEIVE_CONF_START			
		A_10_5_conf_action			
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_isolated (TCV_A_cic))			
23		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_isolated (TCV_A_cic2))			
24		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_reattached (TCV_A_cic))			
25		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_reattached (TCV_A_cic2))			2
		A_10_5_call_release			
26		+A_RECEIVE_CALL_REL			
27		+A_RECEIVE_CALL_REL2			
		B_10_5_call_setup			
28		+B_RECEIVE_CONF			
		B_10_5_receive_conf_start			
29		+B_RECEIVE_CONF_START			
		B_10_5_conf_action			
30		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_isolated (TCV_B_cic))			
31		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_reattached (TCV_B_cic))			
		B_10_5_call_release			
32		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)----- <-----info----- --setup(CR1)--> -----IAM-----> <---alerting----- <-----ACM----- <---connect----- <-----ANM----- ... check communication ... </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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        <--CPG(conf est)---- <--fac(add C)---
        ----IAM(cic2)-----> --setup(CR3)->
        <-----ACM----- <----alerting----
        <-----ANM----- <----connect----
        <--CPG(conf est)---- <--fac(add C)---
        -----disc----->
        <--CPG(oth pty add)--- (cic1)
        <--CPG(oth pty iso)--- (cic1)
        <--CPG(oth pty iso)--- (cic2)
        <--CPG(oth pty rea)--- (cic1)
        <--CPG(oth pty rea)--- (cic2)

        <----REL(cic1)-----
        -----RLC----->
        <----REL(cic2)-----
        -----RLC----->

```

SPA	IUT	UNI	IUT	SPB
-----IAM----->	--setup(CR2)->			
<-----ACM-----	<--alerting---			
<-----ANM-----	<--connect---			
<--CPG(hold)-----	<----info-----			
		--setup(CR1)-->		-----IAM----->
		<--alerting-----		<-----ACM-----
		<--connect---		<-----ANM-----
				... check communication ...
		---fac(begC)-->		--CPG(conf est)----->
				--CPG(oth pty add)-->
<--CPG(conf est)---- <--fac(add C)---				
----IAM(cic2)-----> --setup(CR3)->				
<-----ACM----- <----alerting---				
<-----ANM----- <----connect---				
<--CPG(conf est)---- <--fac(add C)---				----CPG(oth pty add)-->
-----disc----->				
<--CPG(oth pty add)--- (cic1)				
<--CPG(oth pty iso)--- (cic1)		----fac(iso C)---->		----CPG(isolated)---
<--CPG(oth pty iso)--- (cic2)				
<--CPG(oth pty rea)--- (cic1)		----fac(rea C)---->		----CPG(reattach)---
<--CPG(oth pty rea)--- (cic2)				
<----REL(cic1)-----		----disc----->		-----REL----->
-----RLC----->				<-----RLC-----
<----REL(cic2)-----				
-----RLC----->				

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. Isolate a conferee and check that the notification isolated is received in the CPG.
 5. Reattach the conferee.
 6. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_6_Reattachement_of_party Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Reattachement of party To verify that the IUT can successfully reattach the isolated conferee to the conference and notify the implied parties correctly. Note: The generic notification indicator set to "reattached" should be sent by the IUT to the affected conferee and the generic notification indicator set to "other party reattached" should be sent to non-affected conferees. The event indicator in the CPG should be set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.4 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_6_conf_setup_receive, A_ISUP_PTC:A_10_6_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_6_conf_setup_send, B_ISUP_PTC:B_10_6_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_6_conf_start, A_ISUP_PTC:A_10_6_receive_conf_start, B_ISUP_PTC:B_10_6_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_6_conf_action, A_ISUP_PTC:A_10_6_conf_action, B_ISUP_PTC:B_10_6_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_6_call_release, A_ISUP_PTC:A_10_6_call_release, B_ISUP_PTC:B_10_6_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
		U_10_6_conf_setup_receive			
13		+A_access_CONF_setup_receive			
		U_10_6_conf_setup_send			
14		+A_access_CONF_setup_send		1	
		U_10_6_conf_start			
15		+A_access_CONF_start		3	
		U_10_6_conf_action			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_ISOinv (TCV_inv_id, TCV_party_id1)))		4	
17		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_REAinv (TCV_inv_id, TCV_party_id1)))		5	
		U_10_6_call_release			

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Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments	
18		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))			6	
		A_10_6_call_setup				
19		+A_SEND_CONF				
		A_10_6_receive_conf_start				
20		+A_RECEIVE_CONF_START				
		A_10_6_conf_action				
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))				
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_isolated (TCV_A_cic))				
23		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_isolated (TCV_A_cic2))				
24		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_reattached (TCV_A_cic))				
25		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_reattached (TCV_A_cic2))				
		A_10_6_call_release				
26		+A_RECEIVE_CALL_REL				
27		+A_RECEIVE_CALL_REL2				
		B_10_6_call_setup				
28		+B_RECEIVE_CONF			2	
		B_10_6_receive_conf_start				
29		+B_RECEIVE_CONF_START				
		B_10_6_conf_action				
30		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_isolated (TCV_B_cic))				
31		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_reattached (TCV_B_cic))				
		B_10_6_call_release				
32		+B_RECEIVE_CALL_REL				
Detailed Comments :						
Pre-test conditions						
Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.						
SPC SPA UNI at A SPA SPB						
-----IAM-----> --setup(CR2)-->						
<-----ACM----- <---alerting---						
<-----ANM----- <---connect---						
<---CPG(hold)---- <-----info-----						
--setup(CR1)--> -----IAM----->						
<---alerting----- <-----ACM-----						
<---connect--- <-----ANM-----						
... check communication ...						

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Test Case Dynamic Behaviour

Detailed Comments : ...

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          ----fac(begC)-->  --CPG(conf est)---->
<--CPG(conf est)-- <----fac(add C)--          --CPG(oth pty add)-->
----IAM(cic2)----->  --setup(CR3)->
<-----ACM----->  <--alerting---
<-----ANM----->  <---connect---
<--CPG(conf est)-- <----fac(add C)--          --CPG(oth pty add)-->
                      -----disc----->
<--CPG(oth pty add)- (cic1)
<--CPG(oth pty iso)- (cic1)          ----fac(iso C)---->  --CPG(isolated)--->
<--CPG(oth pty iso)- (cic2)
<--CPG(oth pty rea)- (cic1)          ----fac(rea C)---->  --CPG(reattach)--->
<--CPG(oth pty rea)- (cic2)

<--REL(cic1)----->          ----disc----->  -----REL----->
-----RLC----->          <-----RLC----->
<---REL(cic2)---
-----RLC----->

```

SPA	IUT	UNI	IUT	SPB
-----IAM----->	--setup(CR2)->			
<-----ACM----->	<--alerting---			
<-----ANM----->	<---connect---			
<--CPG(hold)----->	<----info----->			
		--setup(CR1)->		-----IAM----->
		<--alerting---		<-----ACM----->
		<---connect---		<-----ANM----->
				... check communication ...
			----fac(begC)-->	--CPG(conf est)---->
<--CPG(conf est)-- <----fac(add C)--				--CPG(oth pty add)-->
----IAM(cic2)----->	--setup(CR3)->			
<-----ACM----->	<--alerting---			
<-----ANM----->	<---connect---			
<--CPG(conf est)-- <----fac(add C)--				--CPG(oth pty add)-->
	-----disc----->			
<--CPG(oth pty add)- (cic1)				
<--CPG(oth pty iso)- (cic1)		----fac(iso C)---->		--CPG(isolated)--->
<--CPG(oth pty iso)- (cic2)				
<--CPG(oth pty rea)- (cic1)		----fac(rea C)---->		--CPG(reattach)--->
<--CPG(oth pty rea)- (cic2)				
<--REL(cic1)----->		----disc----->		-----REL----->
-----RLC----->				<-----RLC----->
<---REL(cic2)---				
-----RLC----->				

1. Assist a call set up to UNI at SPB.
2. Establish a conference from SPA to SPB.
3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
4. Isolate a conferee and check that the notification isolated is received in the CPG.
5. Reattach the conferee.
6. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_7_Splitting_of_a_party Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Splitting of a party <p>To verify that the IUT can create a private communication between the served user and one of the conferees and notify the implied parties correctly. Note: The generic notification indicator set to "conference disconnected" should be sent by the IUT to the affected conferee and the generic notification indicator set to "other party split" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress". The non-affected conferees should not be able to participate in the communication of the private communication. Note: See also figure 1-5/Q.734.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.5 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_7_conf_setup_receive, A_ISUP_PTC:A_10_7_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_7_conf_setup_send, B_ISUP_PTC:B_10_7_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_7_conf_start, A_ISUP_PTC:A_10_7_receive_conf_start, B_ISUP_PTC:B_10_7_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_7_conf_action, A_ISUP_PTC:A_10_7_conf_action, B_ISUP_PTC:B_10_7_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_7_call_release, A_ISUP_PTC:A_10_7_call_release, B_ISUP_PTC:B_10_7_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_7_conf_setup_receive +A_access_CONF_setup_receive			
14		U_10_7_conf_setup_send +A_access_CONF_setup_send		1	
15		U_10_7_conf_start +A_access_CONF_start		3	
16		U_10_7_conf_action +A_access_SEND (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_SPLinv (TCV_inv_id, TCV_conf_id, TCV_party_id1)))		4	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		+A_access_RECEIVE (connect_o_r_with_fie (TSV_CREF1, c_SPLrr (TCV_inv_id)))			5
		U_10_7_call_release			
18		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))			6
19		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF2, 16))			
		A_10_7_call_setup			
20		+A_SEND_CONF			
		A_10_7_receive_conf_start			
21		+A_RECEIVE_CONF_START			
		A_10_7_conf_action			
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
23		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_split (TCV_A_cic))			
24		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_split (TCV_A_cic2))			
		A_10_7_call_release			
25		+A_RECEIVE_CALL_REL			
26		+A_RECEIVE_CALL_REL2			
		B_10_7_call_setup			
27		+B_RECEIVE_CONF			2
		B_10_7_receive_conf_start			
28		+B_RECEIVE_CONF_START			
		B_10_7_conf_action			
29		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			
		B_10_7_call_release			
30		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)---- <---info----- --setup(CR1)--> -----IAM-----> <---alerting--- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)----> <---CPG(conf est)-- <---fac(add C)-- ---IAM(cic2)----> --CPG(oth pty add)--> --setup(CR2)--> </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

<-----ACM---- <--alerting----
<-----ANM---- <---connect---
<-CPG(conf est)-- <--fac(add C)--          --CPG(oth pty add)-->
                                     -----disc----->
<-CPG(oth pty add)- (cic1)
                                     --setup(CR2)-->
                                     <-- connect-----
<-CPG(oth pty split)- (cic1)          ---fac(rea C)-->  ----CPG(reattach)-->
<-CPG(oth pty split)- (cic2)

<---REL(cic1)-- <---disc(CR1)---  ---disc(CR2)----->  -----REL----->

-----RLC----->
<-----RLC-----
<---REL(cic2)---
-----RLC----->

```

SPA	IUT	UNI	IUT	SPB
-----IAM----->	--setup(CR2)-->			
<-----ACM-----	<--alerting---			
<-----ANM-----	<---connect---			
<--CPG(hold)---	<---info-----			
			--setup(CR1)->	-----IAM----->
			<--alerting---	<-----ACM-----
			<---connect---	<-----ANM-----
			... check communication ...	
			---fac(begC)-->	--CPG(conf est)---->
				--CPG(oth pty add)-->
<-CPG(conf est)-- <--fac(add C)--				
---IAM(cic2)--->	--setup(CR2)-->			
<-----ACM---	<--alerting---			
<-----ANM---	<---connect---			
<-CPG(conf est)-- <--fac(add C)--				--CPG(oth pty add)-->
			-----disc----->	
<-CPG(oth pty add)- (cic1)			--setup(CR2)-->	
			<-- connect-----	
<-CPG(oth pty split)- (cic1)			---fac(rea C)-->	----CPG(reattach)-->
<-CPG(oth pty split)- (cic2)				
<---REL(cic1)-- <---disc(CR1)---			---disc(CR2)----->	-----REL----->
-----RLC----->				
<-----RLC-----				
<---REL(cic2)---				
-----RLC----->				

1. Assist a call set up to UNI at SPB.
2. Establish a conference from SPA to SPB.
3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
4. Split the conferee at SPB and check that the notification conference disconnected is received in the CPG.
5. The private communication between subscriber at SPA and subscriber at SPB is checked.
6. The conference is released by call clearing by the served user at SPA (CR1) and the private communication by normal call clearing (CR2).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_8_Disconnection_of_conferee Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Disconnection of conferee <p>To verify that IUT can successfully disconnect a conferee from the conference, if requested by the served user, and notify the implied parties correctly. Note: The IUT should release the leg towards the conferee according to normal call release procedures, i.e. send a REL to a conferee connected to the conference. The generic notification indicator set to "other party disconnected" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress".</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.6 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_8_conf_setup_receive, A_ISUP_PTC:A_10_8_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_8_conf_setup_send, B_ISUP_PTC:B_10_8_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_8_conf_start, A_ISUP_PTC:A_10_8_receive_conf_start, B_ISUP_PTC:B_10_8_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_8_conf_action, A_ISUP_PTC:A_10_8_conf_action, B_ISUP_PTC:B_10_8_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_8_call_release, A_ISUP_PTC:A_10_8_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_8_conf_setup_receive +A_access_CONF_setup_receive			
14		U_10_8_conf_setup_send +A_access_CONF_setup_send		1	
15		U_10_8_conf_start +A_access_CONF_start		3	
16		U_10_8_conf_action +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_DROinv (TCV_inv_id, TCV_party_id1)))		4	
17		U_10_8_call_release +A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16)) A_10_8_call_setup		5	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+A_SEND_CONF			
		A_10_8_receive_conf_start			
19		+A_RECEIVE_CONF_START			
		A_10_8_conf_action			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_disc (TCV_A_cic))			
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_disc (TCV_A_cic2))			
		A_10_8_call_release			
23		+A_RECEIVE_CALL_REL			
24		+A_RECEIVE_CALL_REL2			
		B_10_8_call_setup			
25		+B_RECEIVE_CONF		2	
		B_10_8_receive_conf_start			
26		+B_RECEIVE_CONF_START			
		B_10_8_conf_action			
27		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)----- <-----info----- --setup(CR1)--> -----IAM-----> <---alerting--- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ----fac(begC)--> ---CPG(conf est)--> --CPG(oth pty add)--> <--CPG(conf est)-- <---fac(add C)----- ---IAM(cic2)----> --setup(CR3)----> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <--CPG(conf est)-- <---fac(add C)----- --CPG(oth pty add)--> -----disc-----> <--CPG(oth pty add)-- (cic1) <--CPG(oth pty disc)-- (cic1) <--CPG(oth pty disc)-- (cic2) ---fac(drop C)--> -----REL-----> <-----RLC-----> <---REL(cic1)----- <-----disc----- -----RLC-----> <---REL(cic2)----- -----RLC-----> SPA IUT UNI IUT SPB </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

-----IAM-----> --setup(CR2)-->
<-----ACM----- <--alerting---
<-----ANM----- <---connect---
<--CPG(hold)----- <-----info-----

--setup(CR1)--> -----IAM----->
<--alerting--- <-----ACM-----
<---connect--- <-----ANM-----
... check communication ...
---fac(begC)--> ---CPG(conf est)-->
--CPG(oth pty add)-->

<--CPG(conf est)-- <--fac(add C)-----
---IAM(cic2)----> --setup(CR3)---->
<-----ACM----- <---alerting---
<-----ANM----- <---connect---
<--CPG(conf est)-- <--fac(add C)----- --CPG(oth pty add)-->
-----disc----->
<--CPG(oth pty add)-- (cic1)
<--CPG(oth pty disc)-- (cic1) ---fac(drop C)--> ----REL----->
<--CPG(oth pty disc)-- (cic2) <----RLC-----

<--REL(cic1)----- <-----disc-----
-----RLC----->
<--REL(cic2)-----
-----RLC----->

```

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. Release the dropped party at SPB.
 5. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_9_Disconnection_by_a_conferee Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Disconnection by a conferee <p>To verify that IUT can successfully disconnect a conferee from the conference, if requested by the conferee, and notify the implied parties correctly. Note: The IUT should release the leg towards the conferee according to normal call release procedures, i.e. send a RLC in response to the REL to a conferee connected to the conference through ISUP. The generic notification indicator set to "other party disconnected" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress".</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.7 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_9_conf_setup_receive, A_ISUP_PTC:A_10_9_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_9_conf_setup_send, B_ISUP_PTC:B_10_9_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_9_conf_start, A_ISUP_PTC:A_10_9_receive_conf_start, B_ISUP_PTC:B_10_9_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_9_conf_action, A_ISUP_PTC:A_10_9_conf_action, B_ISUP_PTC:B_10_9_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_9_call_release, A_ISUP_PTC:A_10_9_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_9_conf_setup_receive +A_access_CONF_setup_receive U_10_9_conf_setup_send			
14		+A_access_CONF_setup_send U_10_9_conf_start		1	
15		+A_access_CONF_start U_10_9_conf_action		3	
16		+A_access_SEND (facility_o_r (TSO_COMPLEMENT_F(TCV_flag_dss1), TSV_CREF1, c_PARinv (TCV_party_id1))) U_10_9_call_release		4	
17		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))		5	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		A_10_9_call_setup +A_SEND_CONF			
19		A_10_9_receive_conf_start +A_RECEIVE_CONF_START			
20		A_10_9_conf_action +A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_disc (TCV_A_cic))			
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_disc (TCV_A_cic2))			
23		A_10_9_call_release +A_RECEIVE_CALL_REL			
24		+A_RECEIVE_CALL_REL2			
25		B_10_9_call_setup +B_RECEIVE_CONF			2
26		B_10_9_receive_conf_start +B_RECEIVE_CONF_START			
27		B_10_9_conf_action +B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.

```

SPC          SPA          UNI at A          SPA          SPB
-----IAM-----> --setup(CR2)-->
<-----ACM----- <--alerting---
<-----ANM----- <---connect---
<--CPG(hold)----- <----info-----

                                --setup(CR1)--> -----IAM----->
                                <--alerting--- <-----ACM-----
                                <---connect--- <-----ANM-----
                                ... check communication ...
                                ---fac(begC)--> --CPG(conf est)---->
                                --CPG(oth pty add)-->

<--CPG(conf est)-- <--fac(add C)---
---IAM(cic2)----> --setup(CR3)-->
<-----ACM----- <--alerting---
<-----ANM----- <---connect---
<--CPG(conf est)-- <--fac(add C)---
                                --CPG(oth pty add)-->
                                -----disc----->

<--CPG(oth pty add)-- ( cic1)
<--CPG(oth pty disc)-- (cic1)          <--fac(pty disc)-- <-----REL-----
<--CPG(oth pty disc)-- (cic2)          -----RLC----->

<--REL(cic1)----- <----disc-----
-----RLC----->
<--REL(cic2)-----
-----RLC----->

```

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Test Case Dynamic Behaviour

Detailed Comments : ...

SPA	IUT	UNI	IUT	SPB
-----IAM----->	--setup(CR2)-->			
<-----ACM-----	<---alerting---			
<-----ANM-----	<---connect---			
<---CPG(hold)----	<-----info-----			
		--setup(CR1)-->	-----IAM----->	
		<---alerting---	<-----ACM-----	
		<---connect---	<-----ANM-----	
		... check communication ...		
		----fac(begC)-->	--CPG(conf est)---->	
<--CPG(conf est)--	<---fac(add C)---		--CPG(oth pty add)-->	
---IAM(cic2)--->	--setup(CR3)--->			
<-----ACM-----	<---alerting---			
<-----ANM-----	<---connect---			
<--CPG(conf est)--	<---fac(add C)---		--CPG(oth pty add)-->	
	-----disc----->			
<--CPG(oth pty add)- (cic1)				
<--CPG(oth pty disc)- (cic1)		<-fac(pty disc)-	<-----REL-----	
<--CPG(oth pty disc)- (cic2)			-----RLC----->	
<---REL(cic1)-----	<-----disc-----			
-----RLC----->				
<---REL(cic2)-----				
-----RLC----->				

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. Release request by the conferee at SPB.
 5. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_10_Termination_of_conference Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Termination of conference <p>To verify that IUT can successfully disconnect all conferees from the conference, if requested by the served user, and initiate the normal call release procedure towards each conferee. Note: The IUT should send REL to all conferees connected to the conference.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1.8 / Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_10_conf_setup_receive, A_ISUP_PTC:A_10_10_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_10_conf_setup_send, B_ISUP_PTC:B_10_10_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_10_conf_start, A_ISUP_PTC:A_10_10_receive_conf_start, B_ISUP_PTC:B_10_10_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC:A_10_10_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_10_call_release, A_ISUP_PTC:A_10_10_call_release, B_ISUP_PTC:B_10_10_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_10_conf_setup_receive +A_access_CONF_setup_receive			
14		U_10_10_conf_setup_send +A_access_CONF_setup_send		1	
15		U_10_10_conf_start +A_access_CONF_start		3	
16		U_10_10_call_release +A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))		4, 5	
17		A_10_10_call_setup +A_SEND_CONF			
18		A_10_10_receive_conf_start +A_RECEIVE_CONF_START			
		A_10_10_conf_action			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
20		A_10_10_call_release			
21		+A_RECEIVE_CALL_REL +A_RECEIVE_CALL_REL2			
22		B_10_10_call_setup +B_RECEIVE_CONF			2
23		B_10_10_receive_conf_start +B_RECEIVE_CONF_START			
24		B_10_10_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)---- <----info----- --setup(CR1)--> -----IAM-----> <---alerting----- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)----> --CPG(conf est)----> --CPG(oth pty add)--> <--CPG(conf est)-- <---fac(add C)-- ---IAM(cic2)----> --setup(CR3)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <--CPG(conf est)-- <---fac(add C)-- --CPG(oth pty add)--> -----disc-----> <CPG(oth pty add)- (cic1) <---REL(cic1)----- -----RLC-----> <---REL(cic2)----- -----RLC-----> SPA IUT UNI IUT SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)---- <----info----- --setup(CR1)--> -----IAM-----> <---alerting----- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)----> --CPG(conf est)----> --CPG(oth pty add)--> <--CPG(conf est)-- <---fac(add C)-- ---IAM(cic2)----> --setup(CR3)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <--CPG(conf est)-- <---fac(add C)-- --CPG(oth pty add)--> -----disc-----> </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<CPG(oth pty add)- (cic1)

<--REL(cic1)-----

-----RLC----->

<--REL(cic2)-----

-----RLC----->

---fac(end C)-> -----REL----->

<----disc----- <-----RLC-----

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. Release the dropped party at SPB.
 5. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_10_11_Adding_of_conferees_fails_unsuccessful Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Adding of conferees fails (unsuccessful) To verify that if the procedure of adding conferees fails the concerned call remains in the previous state and notifications never be sent to the affected nor to the non-affected remote parties. Note: The procedure of adding fails, e.g. because the maximum conference participants is exceeded.					
Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.2 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_11_conf_setup_receive, A_ISUP_PTC:A_10_11_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_11_conf_setup_send, B_ISUP_PTC:B_10_11_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_11_conf_action, A_ISUP_PTC:A_10_11_conf_action, B_ISUP_PTC:B_10_11_conf_action)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_11_call_release, A_ISUP_PTC:A_10_11_call_release, B_ISUP_PTC:B_10_11_call_release)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		U_10_11_conf_setup_receive			
11		+A_access_CONF_setup_receive			
		U_10_11_conf_setup_send			
12		+A_access_CONF_setup_send		1	
		U_10_11_conf_action			
13		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv (TCV_inv_id, TCV_conf_id)))		3	
14		+A_access_CONF_add_max		4	
15		+A_access_RECEIVE (disconnect_o_r (TSV_CREF2))			
16		+A_access_CONF_setup_receive_unsucc		5	
		U_10_11_call_release			
17		+A_access_SEND (disconnect_without_component (TCV_flag_dss1, TSV_CREF1, 16))		6	
		A_10_11_call_setup			
18		+A_SEND_CONF			
		A_10_11_conf_action			
19		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
20		+A_RECEIVE_CONF_ADD_MAX			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+A_RECEIVE_CONF_OTH_PTY_ADD			
22		+A_SEND_CONF_UNSUCC			
		A_10_11_call_release			
23		+A_RECEIVE_CALL_REL			
24		+A_RECEIVE_CALL_REL2			
		B_10_11_call_setup			
25		+B_RECEIVE_CONF			2
		B_10_11_conf_action			
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
27		+B_RECEIVE_CONF_ADD_MAX			
		B_10_11_call_release			
28		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF supplementary service.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)----- <-----info----- --setup(CR1)--> -----IAM-----> <---alerting--- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)----> --CPG(oth pty add)---> <--CPG(conf est)--- <---fac(add C)-- -----At this point there are 3 conferees in conference.----- REPEAT for each new conferee: ---IAM(cicx)---> ----setup-----> x=2,3..n; n=maximum number of conferees-2 <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <--CPG(conf est)--- <---fac(add C)-- -----disc-----> <--CPG(oth pty add)- (cicz) z=1,2...n-1 Try to add another conferee (maximum number of conferees exceeded): ---IAM(cicx)---> ----setup-----> x=n+1 <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---fac(addC)-- -----REL-----> -----disc-----> <-----RLC----- Release conference: <---REL(cicy)--- y=1,2....n-1 -----disc-----> -----REL-----> -----RLC-----> <-----RLC----- SPA IUT UNI IUT SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

<-----ANM----- <---connect---
<---CPG(hold)----- <-----info-----
--setup(CR1)-> -----IAM----->
<---alerting----- <-----ACM-----
<---connect--- <-----ANM-----
... check communication ...
---fac(begC)-> --CPG(conf est)----->
--CPG(oth pty add)--->
<--CPG(conf est)--- <--fac(add C)--
-----At this point there are 3 conferees in conference.-----
REPEAT for each new conferee:
---IAM(cicx)---> -----setup-----> x=2,3..n; n=maximum number of conferees-2
<-----ACM----- <---alerting---
<-----ANM----- <---connect---
<--CPG(conf est)--- <--fac(add C)-- --CPG(oth pty add)--->
-----disc----->
<--CPG(oth pty add)- (cicz) z=1,2...n-1
Try to add another conferee (maximum number of conferees exceeded):
---IAM(cicx)---> -----setup-----> x=n+1
<-----ACM--- <---alerting---
<-----ANM--- <---connect---
<--fac(addC)--
-----REL-----> -----disc----->
<-----RLC-----
Release conference:
<---REL(cicy)--- y=1,2....n-1 -----disc-----> -----REL----->
-----RLC-----> <-----RLC-----

```

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. Add as many conferees as possible.
 5. When the mxm is reached no further adding of conferees.
 6. The conference is released by call clearing by the served user at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_10_12_Isolation_reattachement_splitting_disconnection_of_a_party_conference_termination_unsuccessful Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Isolation, reattachement, splitting, disconnection of a party, conference termination (unsuccessful) To verify that if the procedures to isolate a party, reattach a party, split a party, disconnect a party, terminate conference fail, then the concerned call remains in the previous state and notifications are not sent to the affected nor to the non-affected remote parties. Note: The procedure of reattachement fails, e.g. because the party was not formerly isolated. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.2 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_5_conf_setup_receive, A_ISUP_PTC:A_10_5_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_5_conf_setup_send, B_ISUP_PTC:B_10_5_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_5_conf_start, A_ISUP_PTC:A_10_5_receive_conf_start, B_ISUP_PTC:B_10_5_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_5_conf_action, A_ISUP_PTC:A_10_5_conf_action, B_ISUP_PTC:B_10_5_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_5_call_release, A_ISUP_PTC:A_10_5_call_release, B_ISUP_PTC:B_10_5_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_5_conf_setup_receive +A_access_CONF_setup_receive U_10_5_conf_setup_send			
14		+A_access_CONF_setup_send U_10_5_conf_start		1	
15		+A_access_CONF_start U_10_5_conf_action		3	
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_REAinv (TCV_inv_id, TCV_party_id1))) U_10_5_call_release			
17		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16)) A_10_5_call_setup		4	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+A_SEND_CONF			
		A_10_5_receive_conf_start			
19		+A_RECEIVE_CONF_START			
		A_10_5_conf_action			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
21		+A_TIMEOUT			5
		A_10_5_call_release			
22		+A_RECEIVE_CALL_REL			
23		+A_RECEIVE_CALL_REL2			
		B_10_5_call_setup			
24		+B_RECEIVE_CONF			2
		B_10_5_receive_conf_start			
25		+B_RECEIVE_CONF_START			
		B_10_5_conf_action			
26		+B_TIMEOUT			5
		B_10_5_call_release			
27		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF supplementary service.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <--alerting--- <-----ANM----- <---connect--- <--CPG(hold)----- <-----info----- --setup(CR1)--> -----IAM-----> <--alerting--- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)-----> --CPG(oth pty add)-----> <--CPG(conf est)--- <--fac(add C)--- ---IAM(cic2)---> --setup(CR3)--> <-----ACM----- <--alerting--- <-----ANM----- <---connect--- <--CPG(conf est)--- <--fac(add C)--- -----disc-----> <--CPG(oth pty add)-- (cic1) Try to reattach a party who hasnt been isolated: --fac(reattach)--> <-----REL(cic1) ----- -----disc-----> -----REL-----> -----RLC-----> <-----RLC-----> <---REL(cic2)--- -----RLC-----> </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

SPA	IUT	UNI	IUT	SPB
-----IAM----->	--setup(CR2)-->			
<-----ACM-----	<---alerting---			
<-----ANM-----	<---connect---			
<---CPG(hold)---	<---info-----			
		--setup(CR1)-->	-----IAM----->	
		<---alerting---	<-----ACM-----	
		<---connect---	<-----ANM-----	
		... check communication ...		
		---fac(begC)-->	--CPG(conf est)----->	
			--CPG(oth pty add)----->	
<---CPG(conf est)---	<---fac(add C)---			
---IAM(cic2)--->	--setup(CR3)-->			
<-----ACM-----	<---alerting---			
<-----ANM-----	<---connect---			
<---CPG(conf est)---	<---fac(add C)---			--CPG(oth pty add)----->
	-----disc----->			
<---CPG(oth pty add)---	(cic1)			
Try to reattach a party who hasnt been isolated:				
			--fac(reattach)-->	
<-----REL(cic1) -----		-----disc----->	-----REL----->	
-----RLC----->			<-----RLC-----	
<---REL(cic2)---				
-----RLC----->				

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. The conference is released by call clearing by the served user at SPA.
 5. No CPG message with reattached should be received.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_13_a_IUT_passes_conference_indications_in_CPG Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : To verify that the IUT can transfer/deliver the required notifications in/from the CPG message. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.5.2.2.1;1.5.2.3.1;1.5.2.4.1 / Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_conf_1, B_ISUP_PTC:B_conf_1)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		CREATE (A_ISUP_PTC:A_conf_2, B_ISUP_PTC:B_conf_2)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
10		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
11		+check_idle			
12		+postamble			Sets final verdict
		A_call_setup			
13		+A_SEND (IAM_s_AB (TCV_A_cic))			
14		+A_RECEIVE (ACM_m (TCV_A_cic))			
15		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_conf_1			
16		+A_SEND (CPG_s_AB_Generic_notification_ind_conf_est (TCV_A_cic))			Send a Conference Established
17		+A_SEND (CPG_s_AB_Generic_notification_ind_other_party_add (TCV_A_cic))			Send an other Party Add
		A_conf_2			
18		+A_SEND (CPG_s_AB_Generic_notification_ind_isolated (TCV_A_cic))			Send an isolated
19		+A_SEND (CPG_s_AB_Generic_notification_ind_reattached (TCV_A_cic))			Send a reattached
20		+A_SEND (CPG_s_AB_Generic_notification_ind_other_party_disc (TCV_A_cic))			Send an Other Party Disconnected
		A_call_release			
21		+A_RECEIVE_CALL_REL			
		B_call_setup			
22		+B_RECEIVE_cic (IAM_r_AB (**B))			
23		+B_SEND (ACM_m (TCV_B_cic))			
24		+B_SEND (ANM_m (TCV_B_cic))			
		B_conf_1			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
25		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			Receive a Conference Established
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_other_party_add (TCV_B_cic))			Receive an Other Party Add
27		B_conf_2 +B_RECEIVE (CPG_r_AB_Generic_notification_ind_isolated (TCV_B_cic))			Receive an isolated
28		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_reattached (TCV_B_cic))			Receive a Reattached
29		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_other_party_disc (TCV_B_cic))			Receive an Other Party Disconnect
30		B_call_release +B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA SPB</p> <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... -----CPG-----> -----CPG-----> conf Est -----CPG-----> -----CPG-----> Other Party Added ... check conference communication ... -----CPG-----> -----CPG-----> Isolated -----CPG-----> -----CPG-----> Reattached -----CPG-----> -----CPG-----> Other Party Disconnected ...check conference communication..... <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> <p>1. Assist a Call setup from SP C to SP B and put it on hold. 2. Check that the notification 'conference established' is received in the CPG from Conferee at SP C. 3. Check the notification 'other party added' in the CPG. 4. Check notification 'isolated' in the CPG. 5. Check the notification 'reattached' in the CPG. 6. Check the notification 'Other Party Disconnected' in the CPG. 7. Release the Conference.</p> <p>Implementation:</p> <pre> ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication..... !-----CPG----->!-----CPG----->! Conf Established !-----CPG----->!-----CPG----->! Other Party Addedcheck conference communication..... !-----CPG----->!-----CPG----->! Isolated !-----CPG----->!-----CPG----->! Reattached </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

!-----CPG----->!-----CPG----->! Other Party Disconnected
.....check conference communication

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_13_b_Notification_procedure_supported Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Notification procedure supported <p>To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.2.1, 1.5.2.3.1, 1.5.2.4.1 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_13_a_conf_setup, B_ISUP_PTC:B_10_13_a_conf_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_13_a_conf_notify, B_ISUP_PTC:B_10_13_a_conf_notify)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_13_a_conf_prg, B_ISUP_PTC:B_10_13_a_conf_prg)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_13_a_conf_rel, B_ISUP_PTC:B_10_13_a_conf_rel)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
		B_10_13_a_conf_setup			
11		+A_SEND (IAM_s_AB (TCV_A_cic))			
12		+A_RECEIVE (ACM_m (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
		B_10_13_a_conf_notify			
14		+A_SEND (CPG_s_AB_Generic_notification_ind_conf_est (TCV_A_cic))			Send a Conference Established 2
15		+A_SEND (CPG_s_AB_Generic_notification_ind_other_party_add (TCV_A_cic))			Send an other Party Add 3
		B_10_13_a_conf_prg			
16		+A_SEND (CPG_s_AB_Generic_notification_ind_isolated (TCV_A_cic))			Send an isolated 4
17		+A_SEND (CPG_s_AB_Generic_notification_ind_reattached (TCV_A_cic))			Send a reattached 5
18		+A_SEND (CPG_s_AB_Generic_notification_ind_other_party_disc (TCV_A_cic))			Send an Other Party Disconnected 6
		B_10_13_a_conf_rel			
19		+A_SEND_CALL_REL			7
		U_10_13_a_conf_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+A_access_RECEIVE_setup (TSV_CREF1)			1
21		+A_access_SEND (alert_o_s (TCV_flag_dss1, TSV_CREF1))			
22		+A_access_SEND (connect_o_s (TCV_flag_dss1, TSV_CREF1))			
		U_10_13_a_conf_notify			
23		+A_access_RECEIVE (notification_noid (TSV_CREF1, TSC_ConfEst_NID))			Receive a Conference Established
24		+A_access_RECEIVE (notification_noid (TSV_CREF1, TSC_OtherPtyAdded_NID))			Receive an Other Party Add
		U_10_13_a_conf_prg			
25		+A_access_RECEIVE (notification_noid (TSV_CREF1, TSC_Isolated_NID))			Receive an isolated
26		+A_access_RECEIVE (notification_noid (TSV_CREF1, TSC_Reattached_NID))			Receive a Reattached
27		+A_access_RECEIVE (notification_noid (TSV_CREF1, TSC_OtherPtyDisconnected_NID))			Receive an Other Party Disconnect
		U_10_13_a_conf_rel			
28		+A_access_RECEIVE (disconnect_o_r (TSV_CREF2))			

Detailed Comments :

Pre-test conditions

Case b)

SPC	SPA	SPB
<-----setup-----	<-----IAM-----	
-----alerting----->	-----ACM----->	
... ringing tone ...		
-----connect----->	-----ANM----->	
check communication		
<-----notify-----	<-----CPG-----	
<-----notify-----	<-----CPG-----	
... check conference communication ...		
<-----notify-----	<-----CPG-----	
<-----notify-----	<-----CPG-----	
<-----notify-----	<-----CPG-----	
... check conference communication ...		
<-----disc-----	<-----REL-----	
	-----RLC----->	

SPA	IUT	SPB
<-----setup-----	<-----IAM-----	
-----alerting----->	-----ACM----->	
... ringing tone ...		
-----connect----->	-----ANM----->	
check communication		
<-----notify-----	<-----CPG-----	
<-----notify-----	<-----CPG-----	
... check conference communication ...		
<-----notify-----	<-----CPG-----	
<-----notify-----	<-----CPG-----	

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

<-----notify----- <-----CPG-----
... check conference communication ...
<-----disc----- <-----REL-----
-----RLC----->

-
1. Assist a call set up from access to SPB.
 2. Check that the notification conference established is received in the CPG from conferee at SPB.
 3. Check the notification other party added in the CPG.
 4. Check the notification isolated in the CPG.
 5. Check the notification reattached in the CPG.
 6. Check the notification other party disconnected in the CPG.
 7. Release the conference

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_14_Interaction_with_HOLD_held_user_added_to_conference Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Interaction with HOLD – held user added to conference To verify that no retrieve notification is sent to a user put on hold and subsequently added to a conference call, but that the IUT sends the "conference established" notification to the held user. Note: The IUT should send the CPG with the generic notification indicator set to "conference established" to the held user. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.6.15 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_14_conf_setup_receive, A_ISUP_PTC:A_10_14_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_14_conf_setup_send, B_ISUP_PTC:B_10_14_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_14_conf_action, A_ISUP_PTC:A_10_14_conf_action, B_ISUP_PTC:B_10_14_conf_action)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_14_call_release, A_ISUP_PTC:A_10_14_call_release, B_ISUP_PTC:B_10_14_call_release)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
11		U_10_14_conf_setup_receive +A_access_CONF_setup_receive U_10_14_conf_setup_send			
12		+A_access_CONF_setup_send U_10_14_conf_action			1
13		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv (TCV_inv_id, TCV_conf_id)))			3
14		+A_access_RECEIVE (disconnect_o_r (TSV_CREF2)) U_10_14_call_release			
15		+A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))			4
16		A_10_14_call_setup +A_SEND_CONF A_10_14_conf_action			
17		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			5
18		+A_TIMEOUT A_10_14_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+A_RECEIVE_CALL_REL			2
		B_10_14_call_setup			
20		+B_RECEIVE_CONF			
		B_10_14_conf_action			
21		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
		B_10_14_call_release			
22		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF and HOLD supplementary services.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)---- <---info----- --setup(CR1)--> -----IAM-----> <---alerting--- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)--> --CPG(oth pty add)----> <---CPG(conf est)---- <---fac(add c)-- no retrieve ! -----disc-----> <-----REL----- <-----disc-----> -----REL-----> -----RLC-----> <-----RLC----- SPA IUT UNI IUT SPB -----IAM-----> --setup(CR2)--> <-----ACM----- <---alerting--- <-----ANM----- <---connect--- <---CPG(hold)---- <---info----- --setup(CR1)--> -----IAM-----> <---alerting--- <-----ACM----- <---connect--- <-----ANM----- ... check communication ... ---fac(begC)--> --CPG(conf est)--> --CPG(oth pty add)----> <---CPG(conf est)---- <---fac(add c)-- no retrieve ! -----disc-----> <-----REL----- <-----disc-----> -----REL-----> -----RLC-----> <-----RLC----- </pre>					
1. Assist a call set up to UNI at SPB. 2. Establish a conference from SPA to SPB. 3. Add a new conferee to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG. 4. The conference is released by call clearing by the served user at SPA. 5. Check if conference established notification was received by user at SPA.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_15_Interaction_with_HOLD_conference_put_on_hold_by_conference_controller Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Interaction with HOLD – conference put on hold by conference controller <p>To verify that no hold and no retrieve notification is sent to the conferees when the conference controller puts the conference on hold.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.6.15 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_15_conf_setup_receive, A_ISUP_PTC:A_10_15_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_15_conf_setup_send, B_ISUP_PTC:B_10_15_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_15_conf_start, A_ISUP_PTC:A_10_15_receive_conf_start, B_ISUP_PTC:B_10_15_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_15_conf_action, A_ISUP_PTC:A_10_15_conf_action, B_ISUP_PTC:B_10_15_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_15_call_release, A_ISUP_PTC:A_10_15_call_release, B_ISUP_PTC:B_10_15_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_15_conf_setup_receive +A_access_CONF_setup_receive			
14		U_10_15_conf_setup_send +A_access_CONF_setup_send		1	
15		U_10_15_conf_start +A_access_CONF_start		3	
16		U_10_15_conf_action +A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF2))			
17		+A_access_SEND (retrieve_o_s (TCV_flag_dss1_2, TSV_CREF1))			
18		U_10_15_call_release +A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16)) A_10_15_call_setup		5	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+A_SEND_CONF			
		A_10_15_receive_conf_start			
20		+A_RECEIVE_CONF_START			
		A_10_15_conf_action			
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
22		+A_TIMEOUT			6
		A_10_15_call_release			
23		+A_RECEIVE_CALL_REL			
24		+A_RECEIVE_CALL_REL2			
		B_10_15_call_setup			
25		+B_RECEIVE_CONF			2
		B_10_15_receive_conf_start			
26		+B_RECEIVE_CONF_START			
		B_10_15_conf_action			
27		+B_TIMEOUT			4
		B_10_15_call_release			
28		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF and HOLD supplementary services.					
<pre> SPC SPA UNI at A SPA SPB -----IAM-----> --setup(CR2)--> <-----ACM-----> <--alerting--- <-----ANM-----> <---connect--- <---CPG(hold)-----> <----info----- --setup(CR1)--> -----IAM-----> <--alerting-----> <-----ACM-----> <---connect-----> <-----ANM-----> ... check communication ... ---fac(begC)--> -----CPG(conf est)--> -----CPG(oth pty add)--> <--CPG(conf est)--> <---fac(add C)-- ---IAM(cic2)----> --setup(CR3)--> <-----ACM-----> <---alerting--- <-----ANM-----> <---connect--- <--CPG(conf est)--> <---fac(add C)-- -----disc-----> <CPG(oth pty add)-- (cic1) --info(hold)--> --info(retr)--> No CPGs should be sent in the network <---REL(cic1)-----> -----disc-----> -----REL-----> -----RLC-----> <---REL(cic2)-----> -----RLC-----> </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

SPA          IUT          UNI          IUT          SPB
-----IAM-----> --setup(CR2)->
<-----ACM----- <---alerting---
<-----ANM----- <---connect---
<---CPG(hold)----- <-----info-----

                                --setup(CR1)--> -----IAM----->
                                <---alerting----- <-----ACM-----
                                <---connect----- <-----ANM-----
                                ... check communication ...
                                ---fac(begC)--> ----CPG(conf est)-->
                                ----CPG(oth pty add)-->

<---CPG(conf est)-- <---fac(add C)--
---IAM(cic2)----> --setup(CR3)->
<-----ACM----- <---alerting---
<-----ANM----- <---connect---
<---CPG(conf est)-- <---fac(add C)--
                                ----disc----->
<CPG(oth pty add)- (cic1)

                                --info(hold)->
                                --info(retr)->
                                No CPGs should be sent in the network

<---REL(cic1)-----
                                -----disc-----> -----REL----->

-----RLC----->
                                <-----RLC-----
<---REL(cic2)-----
-----RLC----->

```

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. No CPGs should be received by the conferee at SPB.
 5. The conference is released by call clearing by the served user at SPA.
 6. No CPGs should be received by the conferees at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_10_16_Interaction_with_HOLD_conference_put_on_hold_by_conferee Group : ISUP_Supplementary_Services/ISS_10_CONF/ Purpose : Interaction with HOLD – conference put on hold by conferee <p>To verify that when the IUT receives notification from a conferee that a call has been put on hold and subsequently retrieved, the IUT passes on this notification to the served user, but does not send any information to the other non-affected conferees.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.6.15 /Q.734					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_10_16_conf_setup_receive, A_ISUP_PTC:A_10_16_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_10_16_conf_setup_send, B_ISUP_PTC:B_10_16_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_10_16_conf_start, A_ISUP_PTC:A_10_16_receive_conf_start, B_ISUP_PTC:B_10_16_receive_conf_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_10_16_conf_action, A_ISUP_PTC:A_10_16_conf_action, B_ISUP_PTC:B_10_16_conf_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_10_16_call_release, A_ISUP_PTC:A_10_16_call_release, B_ISUP_PTC:B_10_16_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_10_16_conf_setup_receive +A_access_CONF_setup_receive			
14		U_10_16_conf_setup_send +A_access_CONF_setup_send		1	
15		U_10_16_conf_start +A_access_CONF_start		3	
16		U_10_16_conf_action +A_access_SEND (hold_o_r (TSV_CREF1))			
17		+A_access_SEND (retrieve_o_r (TSV_CREF1))			
18		U_10_16_call_release +A_access_SEND (disconnect_without_component (TCV_flag_dss1_2, TSV_CREF1, 16))		7	
		A_10_16_call_setup			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+A_SEND_CONF A_10_16_receive_conf_start			
20		+A_RECEIVE_CONF_START A_10_16_conf_action			
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_other_party_add (TCV_A_cic))			
22		+A_TIMEOUT A_10_16_call_release			8
23		+A_RECEIVE_CALL_REL			
24		+A_RECEIVE_CALL_REL2			
25		B_10_16_call_setup +B_RECEIVE_CONF			2
26		B_10_16_receive_conf_start +B_RECEIVE_CONF_START			
27		B_10_16_conf_action +B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			4
28		+B_SEND (CPG_s_BA_Generic_notification_ind_retrieve (TCV_B_cic))			5
29		+B_TIMEOUT			6
30		B_10_16_call_release +B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT such that the served user has subscribed to CONF and HOLD supplementary services.

```

SPC          SPA          UNI at A          SPA          SPB
-----IAM-----> --setup(CR2)-->
<-----ACM----- <--alerting---
<-----ANM----- <---connect---
<---CPG(hold)---- <----info-----
                                --setup(CR1)--> -----IAM----->
                                <--alerting--- <-----ACM-----
                                <---connect--- <-----ANM-----
                                ... check communication ...
                                ---fac(begC)--> --CPG(conf est)-->
                                <--CPG(conf est)-- <---fac(add C)-- --CPG(oth pty add)-->
                                ---IAM(cic2)----> --setup(CR3)-->
                                <-----ACM----- <--alerting---
                                <-----ANM----- <---connect---
                                <--CPG(conf est)-- <---fac(add C)-- --CPG(oth pty add)-->
                                -----disc----->
                                <CPG(oth pty add)-- (cic1)
                                                <---info(hold)-- <---CPG(hold)----
                                                <---info(retr)-- <--CPG(retrieve)--
                                No CPGs should be sent in the network

                                <---REL(cic1)----
                                                -----disc-----> -----REL----->

```

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

-----RLC----->                                     <-----RLC-----
<-----REL(cic2)---
-----RLC----->

SPA          IUT          UNI          IUT          SPB
-----IAM----->  --setup(CR2)->
<-----ACM-----  <--alerting---
<-----ANM-----  <---connect---
<--CPG(hold)-----  <-----info-----
                                --setup(CR1)->  -----IAM----->
                                <--alerting---  <-----ACM-----
                                <---connect---  <-----ANM-----
                                ... check communication ...
                                ---fac(begC)->  --CPG(conf est)->
                                --CPG(oth pty add)->
<--CPG(conf est)---  <---fac(add C)---
---IAM(cic2)----->  --setup(CR3)->
<-----ACM-----  <--alerting---
<-----ANM-----  <---connect---
<--CPG(conf est)---  <--fac(add C)---          --CPG(oth pty add)->
                    -----disc----->
<CPG(oth pty add)- (cic1)
                                <---info(hold)---  <---CPG(hold)-----
                                <---info(retr)---  <--CPG(retrieve)---
                                No CPGs should be sent in the network

<---REL(cic1)-----          -----disc----->  -----REL----->

-----RLC----->                                     <-----RLC-----
<-----REL(cic2)---
-----RLC----->

```

-
1. Assist a call set up to UNI at SPB.
 2. Establish a conference from SPA to SPB.
 3. Add two new conferees to the established conference and notify subscriber at SPB by sending him/her other party added in the CPG.
 4. Call hold is activated by the conferee at SPB, remote hold is sent in the CPG (no notification to the non-affected party, e.g. the served user at SPA).
 5. Call is retrieved by user at SPB, remote retrieval is sent in the CPG (no notification to the non-affected users at SPA).
 6. No CPGs should be received by the conferee at SPB.
 7. The conference is released by call clearing by the served user at SPA.
 8. No CPGs should be received by the conferees at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_1_a_Capability_of_storing_and_sending_the_additional_calling_party_number_in_the_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the additional calling party number in the call transfer number. To verify that the IUT is able to store the additional calling party number in the generic number when the calling party number and the generic number have been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_1_a_call_setup1, A_ACCESS_PTC : U_11_1_a_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_1_a_call_setup2, B_ISUP_PTC : B_11_1_a_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_1_a_facility, A_ISUP_PTC : A_11_1_a_facility, B_ISUP_PTC : B_11_1_a_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_1_a_call_release, B_ISUP_PTC : B_11_1_a_call_release, A_ACCESS_PTC : U_11_1_a_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_1_a_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Generic_number_A (TCV_A_cic), ACM_m (TCV_A_cic), ANM_m (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
13		U_11_1_a_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
14		U_11_1_a_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
		B_11_1_a_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic))			
16		U_11_1_a_facility			
17		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
18		A_11_1_a_facility			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
20		B_11_1_a_facility			
21		+B_RECEIVE (FAC_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (TCV_B_cic))			
		A_11_1_a_call_release			
		+ A_SEND_CALL_REL			
		B_11_1_a_call_release			
		+ B_RECEIVE_CALL_REL			
		U_11_1_a_call_release			
		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			

Detailed Comments : Pre-test conditions

Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.

Case a)

```

SPC          SPA          SPB
      1st call      2nd call
-----IAM----->
<-----ACM-----
<-----ANM-----
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
                      <-----ANM-----
<-----FAC----- <-----FAC-----> remote addCgPN in CTNb
:
```

1. Assist call set up for the 1st call and then initiate the 2nd call at the UNI A (IUT).
2. Initiate the 1st call from SPC to the IUT (SPA) using the number TSP_Nb_A on the 1st B-channel.
3. Assist the 2nd call set up from UNI A to the IUT on the 2nd B-channel.
4. FAC with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_GenNb_C.

Implementation:

```

SPA          IUT          SPB          access
-----IAM-----> -----setup----->
<-----ACM----- <-----call.proc-----
                      <-----alert-----
<-----ANM----- <-----connect-----
                      -----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
                      -----hold_ack----->

                      <-----setup-----
                      -----IAM----->
                      -----call.proc----->
```

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div><div><-----ACM-----</div><div>-----alert-----></div><div><-----ANM-----</div><div>-----connect -----></div><div><-----facility-----</div><div><-----FAC----- <-----FAC-----> remote addCgPN in CTNb</div><div>-----REL-----> <-----disconnect-----></div><div><-----RLC-----</div><div>-----REL-----></div><div>-----disconnect-----></div><div><-----RLC-----</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_1_b_Capability_of_storing_and_sending_the_additional_calling_party_number_in_the_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the additional calling party number in the call transfer number. To verify that the IUT is able to store the additional calling party number in the generic number when the calling party number and the generic number have been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_1_b_call_setup1, A_ACCESS_PTC : U_11_1_b_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_1_b_call_setup2, B_ISUP_PTC : B_11_1_b_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_1_b_facility, A_ISUP_PTC : A_11_1_b_facility, B_ISUP_PTC : B_11_1_b_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_1_b_call_release, B_ISUP_PTC : B_11_1_b_call_release, A_ACCESS_PTC : U_11_1_b_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_1_b_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Generic_number_A (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_1_b_call_setup1			
13		+ A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_1_b_call_setup2			
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2)) B_11_1_b_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic))			
16		U_11_1_b_facility +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2))			
18		A_11_1_b_facility +A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
20		B_11_1_b_facility +B_RECEIVE (CPG_r_UB_National_CTNb_and_generic_notification_ct_acti ve_and_service_activation_ct (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic))			
22		A_11_1_b_call_release + A_SEND_CALL_REL			
23		B_11_1_b_call_release + B_RECEIVE_CALL_REL			
24		U_11_1_b_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.</p> <p>Case b)</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- -----CPG-----> remote addCgPN in CTNb <-----FAC----- <-----ANM----- : </pre> <hr/> <ol style="list-style-type: none"> Assist call set up for the 1st call and then initiate the 2nd call at the UNI A (IUT). Initiate the 1st call from SPC to the IUT (SPA) using the number TSP_Nb_A on the 1st B-channel. Assist the 2nd call set up from UNI A to the IUT on the 2nd B-channel. CPG (progress) with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_GenNb_C. <p>Implementation:</p> <pre> SPA IUT SPB access -----IAM-----> -----setup-----> <-----ACM----- <-----call.proc----- <-----alert----- <-----ANM----- <-----connect----- </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	-----conn_ack----->
<-----CPG---hold 1st call<-----hold-----	-----hold_ack----->
	<-----setup-----
	-----IAM----->
	-----call.proc----->
	<-----ACM-----
	-----alert----->
	<-----facility-----
<-----FAC-----	-----CPG-----> remote addCgPN in CTNb
<-----FAC-----	<-----ANM-----
	-----connect ----->
-----REL----->	-----disconnect----->
<-----RLC-----	-----REL----->
	-----disconnect----->
	<-----RLC-----

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_2_a_Capability_of_storing_and_sending_the_calling_party_number_in_the_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the calling party number in the call transfer number. To verify that the IUT is able to store the calling party number when only this CLI has been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_2_a_call_setup1, A_ACCESS_PTC : U_11_2_a_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_2_a_call_setup2, B_ISUP_PTC : B_11_2_a_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_2_a_facility, A_ISUP_PTC : A_11_2_a_facility, B_ISUP_PTC : B_11_2_a_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_2_a_call_release, B_ISUP_PTC : B_11_2_a_call_release, A_ACCESS_PTC : U_11_2_a_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_2_a_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_CallingPartyNumber_national (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			This IAM is the only difference from V_11_1_a
13		U_11_2_a_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
14		U_11_2_a_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_2_a_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic)) U_11_2_a_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id))) A_11_2_a_facility			
17		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_2_a_facility			
18		+B_RECEIVE (FAC_r_UB_National_CTNb_and_generic_notification_ct_act ive_and_service_activation_ct (TCV_B_cic)) A_11_2_a_call_release			
19		+ A_SEND_CALL_REL B_11_2_a_call_release			
20		+ B_RECEIVE_CALL_REL U_11_2_a_call_release			
21		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			

Detailed Comments : Pre-test conditions

Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.

Case a)

```

SPC              SPA              SPB
      1st call      2nd call
-----IAM----->
<-----ACM-----
<-----ANM-----
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
                      <-----ANM-----
<-----FAC----- <-----FAC-----> remote CgPN in CTNb
:
```

1. Assist call set up for the 1st call and then initiate the 2nd call at the UNI A (IUT).
2. Initiate the 1st call from SPC to the IUT (SPA) using the number TSP_Nb_A on the 1st B-channel.
3. Assist the 2nd call set up from UNI A to the IUT on the 2nd B-channel.
4. FAC with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_Nb_C.

Implementation:

```

SPA              IUT              SPB              access
-----IAM-----> -----setup----->
<-----ACM----- <-----call.proc-----
                      <-----alert-----
<-----ANM----- <-----connect-----
                      -----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
                      -----hold_ack----->

                      <-----setup-----
                      -----IAM----->
                      -----call.proc----->
```

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div><div><-----ACM-----</div><div>-----alert-----></div><div><-----ANM-----</div><div>-----connect-----></div><div><-----facility-----</div><div><-----FAC-----> remote CgPN in CTNb</div><div>-----REL-----> -----disconnect-----></div><div><-----RLC-----</div><div>-----REL-----></div><div>-----disconnect-----></div><div><-----RLC-----</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_2_b_Capability_of_storing_and_sending_the_calling_party_number_in_the_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the calling party number in the call transfer number. <p>To verify that the IUT is able to store the calling party number when only this CLI has been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_2_b_call_setup1, A_ACCESS_PTC : U_11_2_b_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_2_b_call_setup2, B_ISUP_PTC : B_11_2_b_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_2_b_facility, A_ISUP_PTC : A_11_2_b_facility, B_ISUP_PTC : B_11_2_b_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_2_b_call_release, B_ISUP_PTC : B_11_2_b_call_release, A_ACCESS_PTC : U_11_2_b_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_2_b_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_CallingPartyNumber_national (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
13		U_11_2_b_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_2_b_call_setup2			

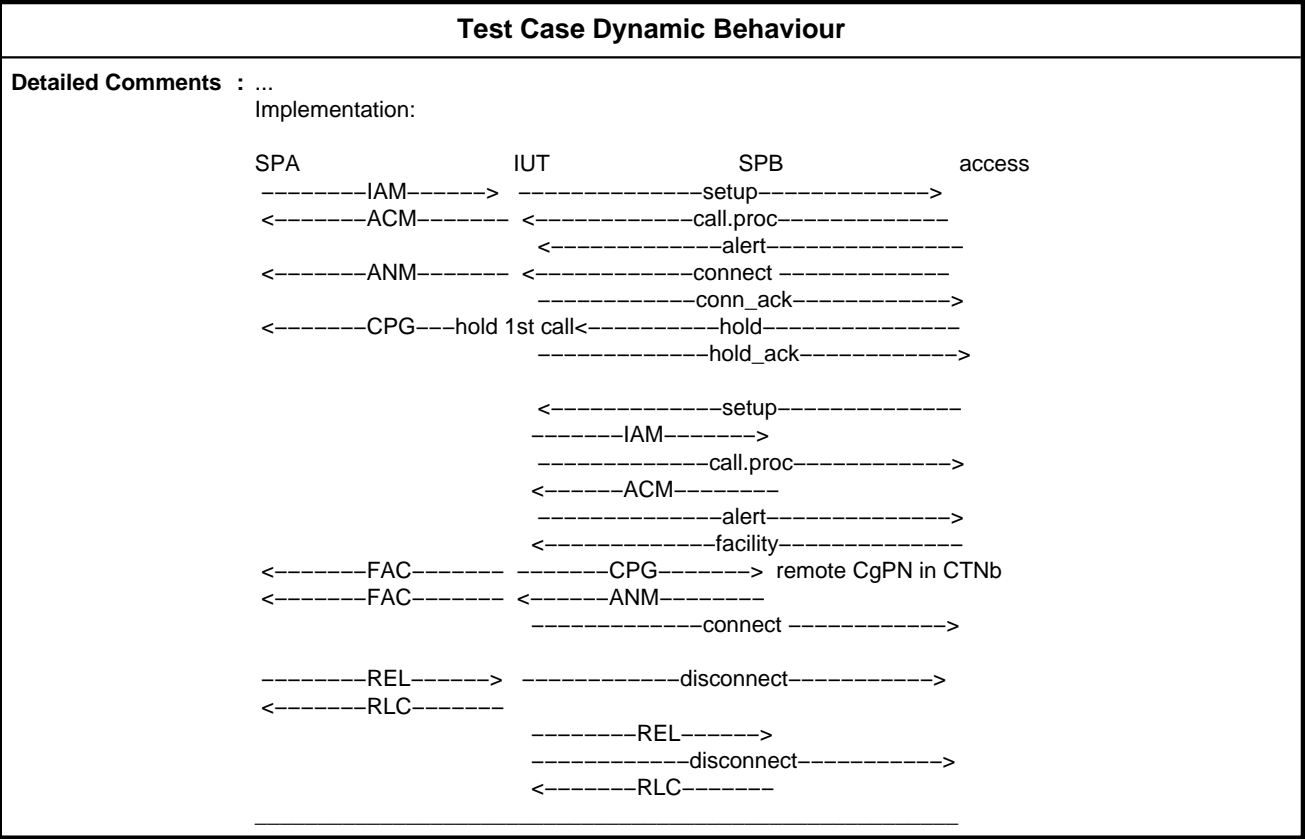
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2)) B_11_2_b_call_setup2			
15		+ B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_2_b_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2)) A_11_2_b_facility			
18		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_2_b_facility			
20		+B_RECEIVE (CPG_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic)) A_11_2_b_call_release			
22		+ A_SEND_CALL_REL B_11_2_b_call_release			
23		+ B_RECEIVE_CALL_REL U_11_2_b_call_release			
24		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<div>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.</div> <div>Case b) SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- <-----CPG-----> remote CgPN in CTNb <-----FAC----- <-----ANM----- : <div>1. Assist call set up for the 1st call and then initiate the 2nd call at the UNI A (IUT). 2. Initiate the 1st call from SPC to the IUT (SPA) using the number TSP_Nb_A on the 1st B-channel. 3. Assist the 2nd call set up from UNI A to the IUT on the 2nd B-channel. 4. CPG (progress) with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_Nb_C.</div></div>					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_3_a_Capability_of_storing_and_sending_the_additional_connected_number_in_the_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the additional connected number in the call transfer number. <p>To verify that the IUT is able to store the additional connected number in the generic number when the connected number and the generic number have been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 b) / Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_3_a_call_setup1, A_ISUP_PTC : A_11_3_a_call_setup1)			Setup 1st call (U -> A) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_3_a_call_setup2, B_ISUP_PTC : B_11_3_a_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_3_a_facility, A_ISUP_PTC : A_11_3_a_facility, B_ISUP_PTC : B_11_3_a_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_3_a_call_release, B_ISUP_PTC : B_11_3_a_call_release, A_ACCESS_PTC : U_11_3_a_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_3_a_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_3_a_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_3_a_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_3_a_call_setup2			
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic)) U_11_3_a_facility			
16		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id))) A_11_3_a_facility			
17		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_3_a_facility			
18		+ B_RECEIVE (FAC_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (TCV_B_cic)) A_11_3_a_call_release			
19		+ A_SEND_CALL_REL B_11_3_a_call_release			
20		+ B_RECEIVE_CALL_REL U_11_3_a_call_release			
21		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<div>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</div> <div>Case a) SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- <-----FAC----- -----FAC-----> remote addConNb in CTNb from UNI at SPC : <div>1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. FAC with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_GenNb_C.</div></div> <div>Implementation: SPA IUT SPB access <-----IAM----- <-----setup----- -----ACM-----> -----call.proc-----> -----alert-----> -----ANM-----> -----connect-----></div>					

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Test Case Dynamic Behaviour

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<-----CPG-----hold 1st call<-----hold-----
                        -----hold_ack----->

                        <-----setup-----
                        -----IAM----->
                        -----call.proc----->
                        <-----ACM-----
                        -----alert----->
                        <-----ANM-----
                        -----connect----->
                        <-----facility-----
<-----FAC-----> -----FAC-----> remote addConNb in CTNb from UNI at
SPC

-----REL-----> -----disconnect----->
<-----RLC-----
                        -----REL----->
                        -----disconnect----->
                        <-----RLC-----

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_3_b_Capability_of_storing_and_sending_the_additional_connected_number_in_the_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the additional connected number in the call transfer number. To verify that the IUT is able to store the additional connected number in the generic number when the connected number and the generic number have been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 b)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_3_b_call_setup1, A_ISUP_PTC : A_11_3_b_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_3_b_call_setup2, B_ISUP_PTC : B_11_3_b_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_3_b_facility, A_ISUP_PTC : A_11_3_b_facility, B_ISUP_PTC : B_11_3_b_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_3_b_call_release, B_ISUP_PTC : B_11_3_b_call_release, A_ACCESS_PTC : U_11_3_b_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_3_b_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_3_b_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
		U_11_3_b_call_setup2			

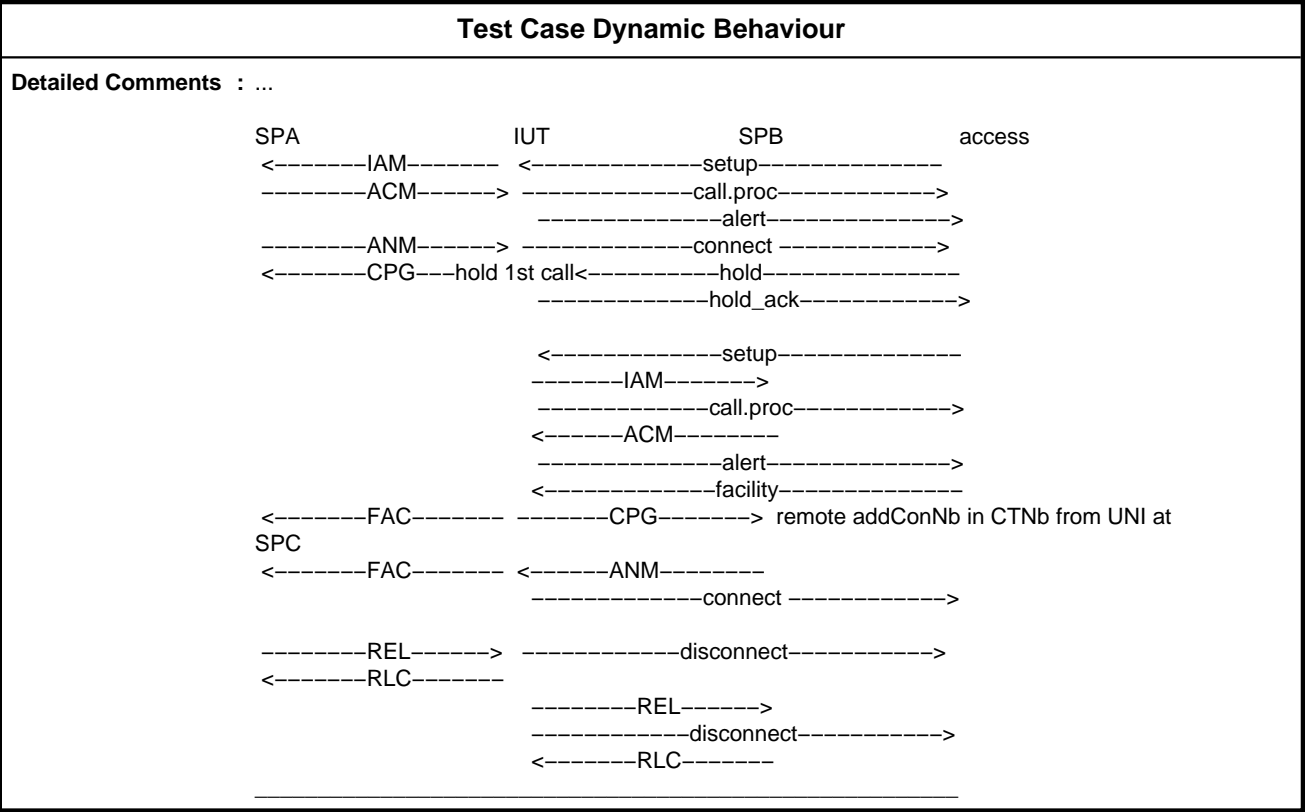
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2)) B_11_3_b_call_setup2			
15		+ B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_3_b_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2)) A_11_3_b_facility			
18		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_3_b_facility			
20		+ B_RECEIVE (CPG_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic)) A_11_3_b_call_release			
22		+ A_SEND_CALL_REL B_11_3_b_call_release			
23		+ B_RECEIVE_CALL_REL U_11_3_b_call_release			
24		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<div>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</div> <div>Case b) SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> -----ACM----- <-----FAC----- -----CPG-----> remote addConNb in CTNb from UNI at SPC <-----FAC----- <-----ANM----- : <div>1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_GenNb_C.</div><div>Implementation:</div></div>					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_4_a_Capability_of_storing_and_sending_the_connected_number_in_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the connected number in call transfer number. <p>To verify that the IUT is able to store connected number when only this COL has been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 b)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_4_a_call_setup1, A_ISUP_PTC : A_11_4_a_call_setup1)			Setup 1st call (U -> A) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_4_a_call_setup2, B_ISUP_PTC : B_11_4_a_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_4_a_facility, A_ISUP_PTC : A_11_4_a_facility, B_ISUP_PTC : B_11_4_a_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_4_a_call_release, B_ISUP_PTC : B_11_4_a_call_release, A_ACCESS_PTC : U_11_4_a_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_4_a_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_4_a_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_number (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
14		U_11_4_a_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
		B_11_4_a_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic))			
		U_11_4_a_facility			
16		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
		A_11_4_a_facility			
17		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
		B_11_4_a_facility			
18		+ B_RECEIVE (FAC_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
		A_11_4_a_call_release			
19		+ A_SEND_CALL_REL			
		B_11_4_a_call_release			
20		+ B_RECEIVE_CALL_REL			
		U_11_4_a_call_release			
21		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			

Detailed Comments : Pre-test conditions

Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.

Case a)

```

SPC          SPA          SPB
      1st call      2nd call
<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
                      <-----ANM-----
<-----FAC----- <-----FAC-----> remote ConNb in CTNb from UNI at
SPC
:
```

1. Initiate 2 calls from the UNI A (IUT).
2. Assist 1st call set up on the left side (SPC).
3. Assist 2nd call set up on the right side (SPB).
4. FAC with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_Nb_C.

Implementation:

```

SPA          IUT          SPB          access
<-----IAM----- <-----setup-----
-----ACM-----> -----call.proc----->
                      -----alert----->
-----ANM-----> -----connect----->
<-----CPG---hold 1st call<-----hold-----
                      -----hold_ack----->

                      <-----setup-----
                      -----IAM----->
                      -----call.proc----->
                      <-----ACM-----
```

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	-----alert----->
	<-----ANM-----
	-----connect----->
	<-----facility-----
<-----FAC-----	-----FAC-----> remote ConNb in CTNb from UNI at
SPC	
-----REL----->	-----disconnect----->
<-----RLC-----	
	-----REL----->
	-----disconnect----->
	<-----RLC-----

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_4_b_Capability_of_storing_and_sending_the_connected_number_in_call_transfer_number Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of storing and sending the connected number in call transfer number. <p>To verify that the IUT is able to store connected number when only this COL has been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.1 b)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_4_b_call_setup1, A_ISUP_PTC : A_11_4_b_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_4_b_call_setup2, B_ISUP_PTC : B_11_4_b_call_setup2)			Setup 2nd call (U → B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_4_b_facility, A_ISUP_PTC : A_11_4_b_facility, B_ISUP_PTC : B_11_4_b_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_4_b_call_release, B_ISUP_PTC : B_11_4_b_call_release, A_ACCESS_PTC : U_11_4_b_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_4_b_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_4_b_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_number (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
14		U_11_4_b_call_setup2 + A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2)) B_11_4_b_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_4_b_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2)) A_11_4_b_facility			
18		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_4_b_facility			
20		+ B_RECEIVE (CPG_r_UB_National_CTNb_and_generic_notification_ct_active_and_service_activation_ct (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic)) A_11_4_b_call_release			
22		+ A_SEND_CALL_REL B_11_4_b_call_release			
23		+ B_RECEIVE_CALL_REL U_11_4_b_call_release			
24		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.

Case b)

```

SPC          SPA          SPB
      1st call          2nd call
<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
<-----FAC----- <-----CPG-----> remote ConNb in CTNb from UNI at
SPC
<-----FAC----- <-----ANM-----
:

```

-
1. Initiate 2 calls from the UNI A (IUT).
 2. Assist 1st call set up on the left side (SPC).
 3. Assist 2nd call set up on the right side (SPB).
 4. CPG (progress) with GenNot: call transfer, active, ServAct: call transfer and CTNb – TSP_Nb_C.

Implementation:

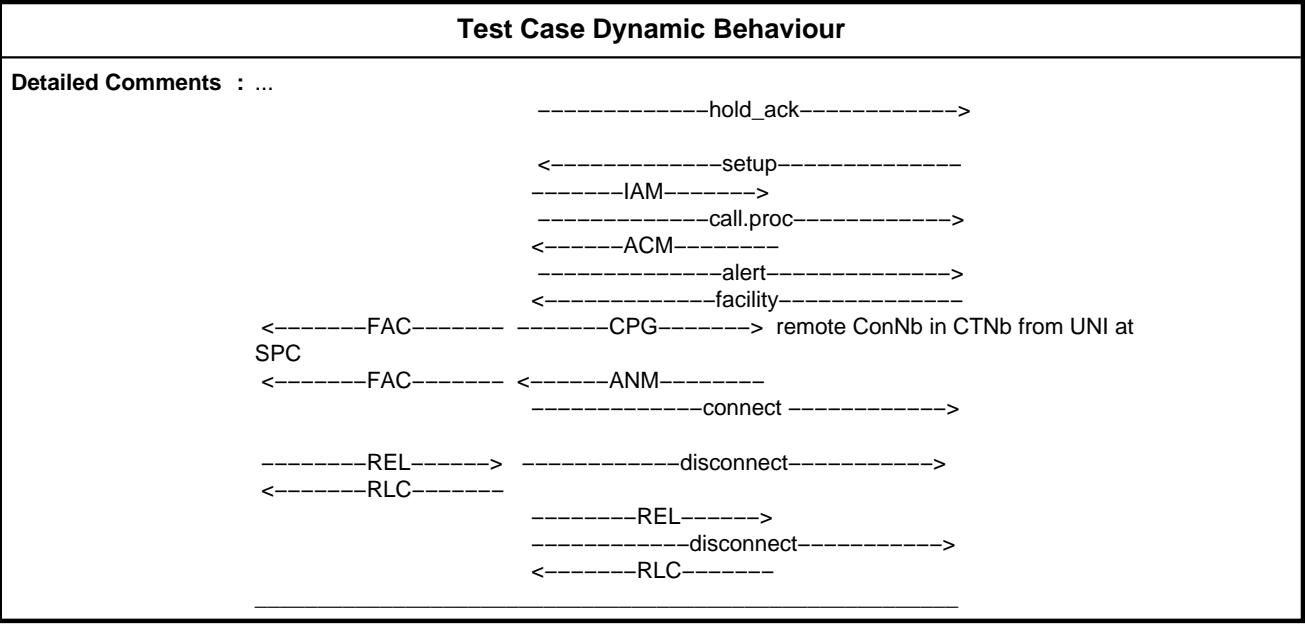
```

SPA          IUT          SPB          access
<-----IAM----- <-----setup-----
-----ACM-----> -----call.proc----->
                      -----alert----->
-----ANM-----> -----connect----->
<-----CPG---hold 1st call<-----hold-----

```

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_5_Loop_prevention_procedure_initiation Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – initiation <p>To verify that the local exchange controlling the ECT can successfully initiate the loop prevention procedure by sending LOP with loop prevention indicator set to "request" and with call transfer reference for both calls.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_5_call_setup1, A_ISUP_PTC : A_11_5_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_5_call_setup2, B_ISUP_PTC : B_11_5_call_setup2)			Setup 2nd call (U → B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_5_ECT_request, A_ISUP_PTC : A_11_5_loop_prevention, B_ISUP_PTC : B_11_5_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_5_call_release, B_ISUP_PTC : B_11_5_call_release, A_ACCESS_PTC : U_11_5_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_5_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) A_11_5_call_setup1			
13		+ A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_5_call_setup2			
14		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_5_call_setup2			

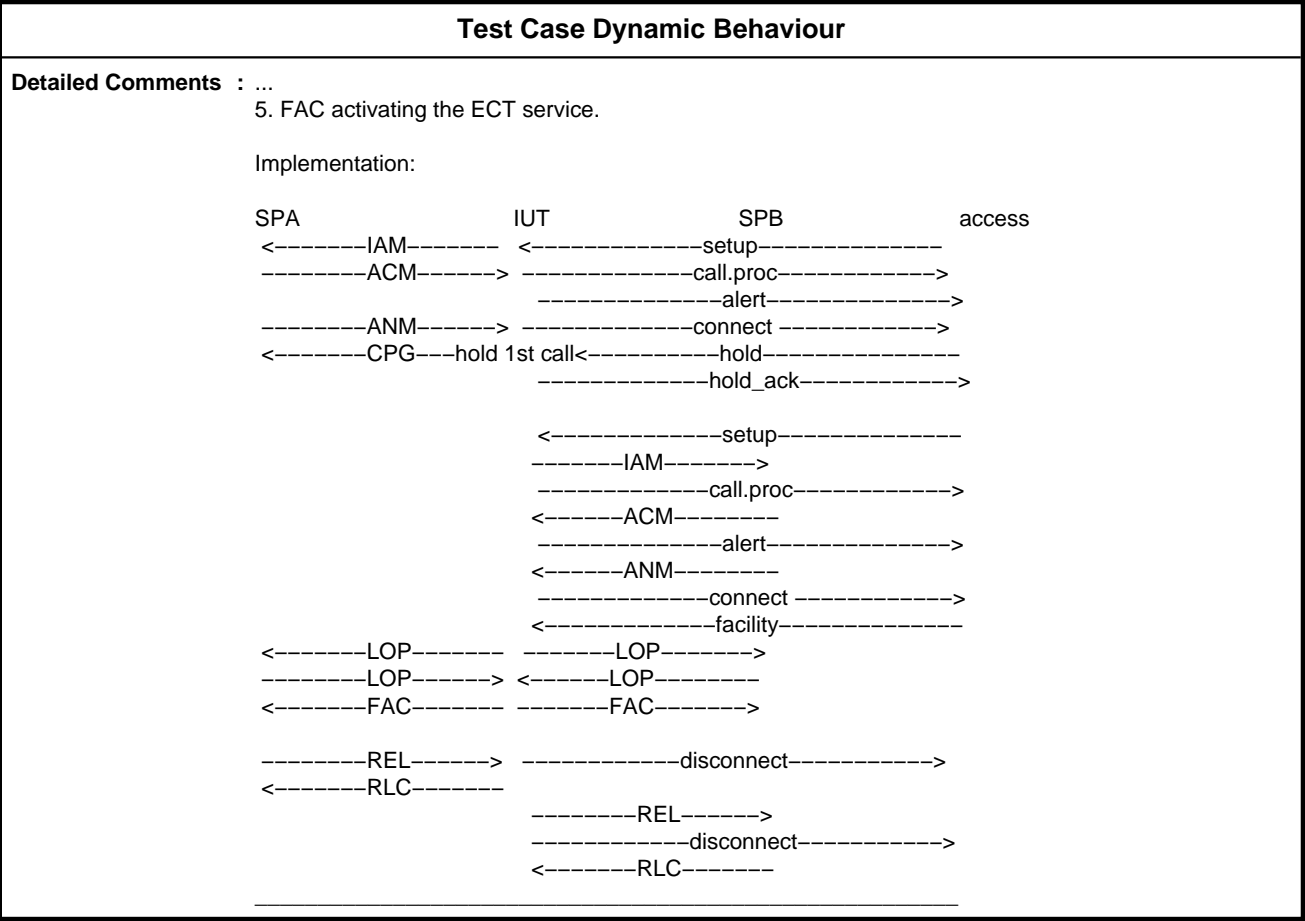
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			
16		U_11_5_ECT_request + A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
17		A_11_5_loop_prevention + A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
18		+ A_SEND (LOP_s_AU_No_loop_indication (TCV_A_cic))			...and sends 'no loop exists' indication
19		+ A_RECEIVE (FAC_r_UA (TCV_A_cic))			A receives FAC activating the ECT service
20		B_11_5_loop_prevention + B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
21		+ B_SEND (LOP_s_BU_No_loop_indication (TCV_B_cic))			...and sends 'no loop exists' indication
22		+ B_RECEIVE (FAC_r_UB (TCV_B_cic))			B receives FAC activating the ECT service
23		A_11_5_call_release + A_SEND_CALL_REL			
24		B_11_5_call_release + B_RECEIVE_CALL_REL			
25		U_11_5_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- <-----LOP----- <-----LOP-----> -----LOP-----> <-----LOP----- <-----FAC----- <-----FAC-----> : </pre> <ol style="list-style-type: none"> 1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. Send back the received CTRef with no loop exists indication. 					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_6_Loop_prevention_procedure_successful_response Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – successful response <p>To verify that the local exchange controlling the ECT can successfully perform a call transfer if a LOP with loop prevention indicator set to "response" is received and "no loop exists", and the call identity matches the one used by the IUT.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_6_call_setup1, A_ISUP_PTC : A_11_6_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_6_call_setup2, B_ISUP_PTC : B_11_6_call_setup2)			Setup 2nd call (U → B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_6_ECT_request, A_ISUP_PTC : A_11_6_loop_prevention, B_ISUP_PTC : B_11_6_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_6_call_release, B_ISUP_PTC : B_11_6_call_release, A_ACCESS_PTC : U_11_6_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_6_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) A_11_6_call_setup1			
13		+ A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_6_call_setup2			
14		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_6_call_setup2			

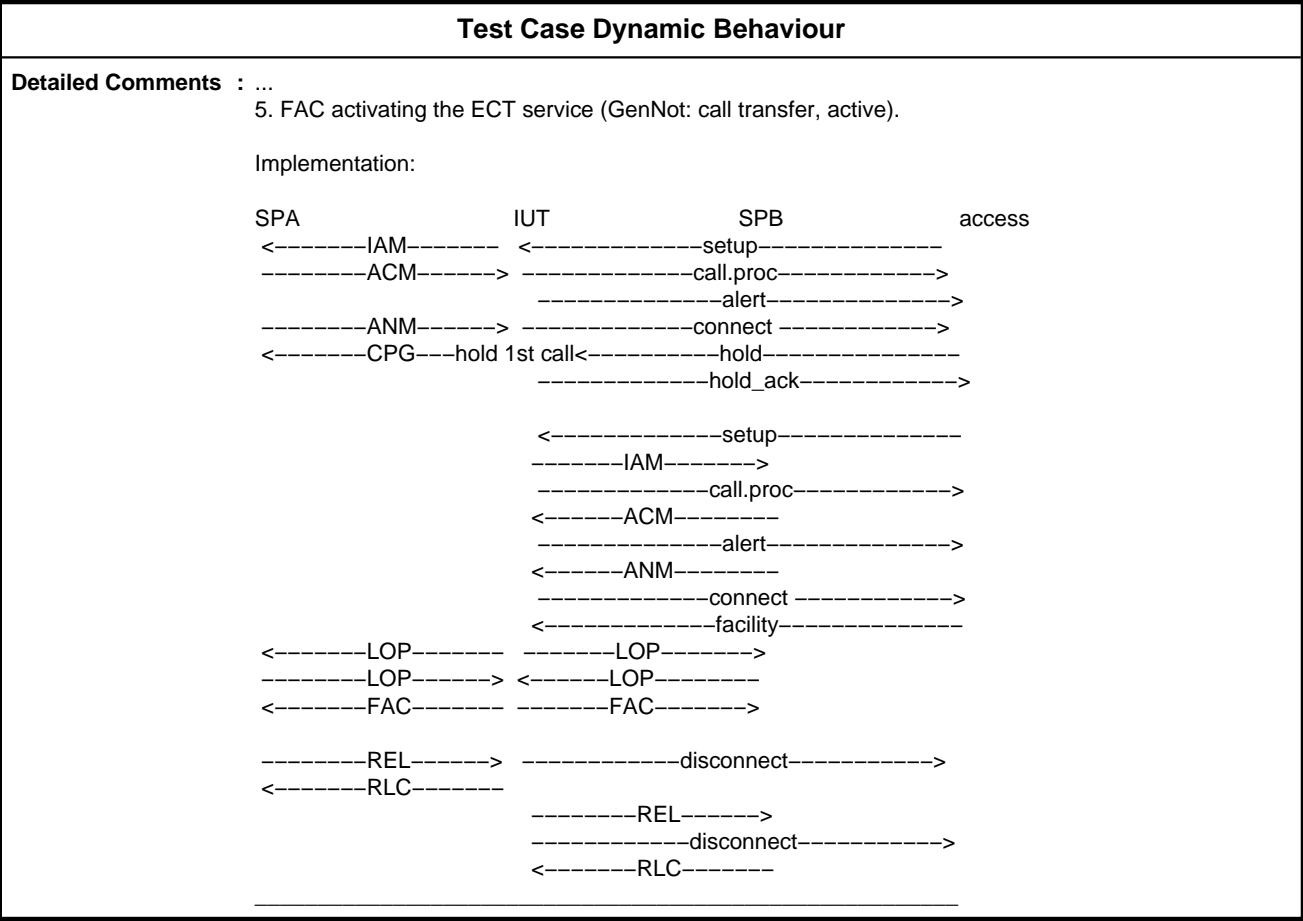
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			
16		U_11_6_ECT_request + A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
17		A_11_6_loop_prevention + A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
18		+ A_SEND (LOP_s_AU_No_loop_indication (TCV_A_cic))			...and sends 'no loop exists' indication
19		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			A receives FAC activating the ECT service
20		B_11_6_loop_prevention + B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
21		+ B_SEND (LOP_s_BU_No_loop_indication (TCV_B_cic))			...and sends 'no loop exists' indication
22		+ B_RECEIVE (FAC_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			B receives FAC activating the ECT service
23		A_11_6_call_release + A_SEND_CALL_REL			
24		B_11_6_call_release + B_RECEIVE_CALL_REL			
25		U_11_6_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- <-----LOP----- <-----LOP-----> -----LOP-----> <-----LOP----- <-----FAC----- <-----FAC-----> : </pre> <p>1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. Send back the received CTRef with no loop exists indication.</p>					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_I_11_7_Loop_prevention_procedure_wrong_call_transfer_identity_ignored Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – wrong call transfer identity ignored <p>To verify that the local exchange controlling the ECT disregards the LOP with loop prevention indicator set to "response" and "no loop exists", if the call transfer identity does not match the one used by the IUT.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_7_call_setup1, A_ISUP_PTC : A_11_7_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_7_call_setup2, B_ISUP_PTC : B_11_7_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_7_ECT_request, A_ISUP_PTC : A_11_7_loop_prevention_request, B_ISUP_PTC : B_11_7_loop_prevention_request_and_invalid_response)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_7_loop_prevention_response, B_ISUP_PTC : B_11_7_loop_prevention_response)			
9		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ISUP_PTC : A_11_7_call_release, B_ISUP_PTC : B_11_7_call_release, A_ACCESS_PTC : U_11_7_call_release)			Disconnect
11		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
12		+check_idle			
13		+postamble			
14		U_11_7_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) A_11_7_call_setup1			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_7_call_setup2			
16		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_7_call_setup2			
17		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic)) U_11_7_ECT_request			
18		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id))) A_11_7_loop_prevention_request			User activates ECT @ DSS1 side
19		+ A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic)) B_11_7_loop_prevention_request_and_invalid_response			A receives loop indication request
20		+ B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
21		+ B_SEND (LOP_s_BU_No_loop_indication_with_altered_ctref (TCV_B_cic)) A_11_7_loop_prevention_response			...and sends 'no loop exists' indication with altered CTRef
22		+ A_SEND (LOP_s_AU_No_loop_indication (TCV_A_cic))			...and sends 'no loop exists' indication
23		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_7_loop_prevention_response			A receives FAC activating the ECT service
24		+ B_SEND (LOP_s_BU_No_loop_indication (TCV_B_cic))			...and sends 'no loop exists' indication
25		+ B_RECEIVE (FAC_r_UB (TCV_B_cic)) A_11_7_call_release			B receives FAC activating the ECT service
26		+ A_SEND_CALL_REL B_11_7_call_release			
27		+ B_RECEIVE_CALL_REL U_11_7_call_release			
28		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			

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Test Case Dynamic Behaviour

Detailed Comments : Pre-test conditions
 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.

SPC	SPA	SPB
	1st call	2nd call
<-----IAM-----		
-----ACM----->		
-----ANM----->		
<-----CPG-----	hold 1st call	
	-----IAM----->	
	<-----ACM-----	
	<-----ANM-----	
<-----LOP-----	-----LOP----->	
	<-----LOP-----	(to be disregarded)
-----LOP----->	<-----LOP-----	
<-----FAC-----	-----FAC----->	
:		

-
1. Initiate 2 calls from the UNI A (IUT).
 2. Assist 1st call set up on the left side (SPC).
 3. Assist 2nd call set up on the right side (SPB).
 4. Send back an altered (incremented) CTRef with no loop exists indication, to be disregarded.
 5. Send back the received CTRef with no loop exists indication.
 6. FAC activating the ECT service.

Implementation:

SPA	IUT	SPB	access
<-----IAM-----	<-----setup-----		
-----ACM----->	-----call.proc----->		
	-----alert----->		
-----ANM----->	-----connect----->		
<-----CPG---hold 1st call<	-----hold-----		
	-----hold_ack----->		
	<-----setup-----		
	-----IAM----->		
	-----call.proc----->		
	<-----ACM-----		
	-----alert----->		
	<-----ANM-----		
	-----connect----->		
	<-----facility-----		
<-----LOP-----	-----LOP----->		
	<-----LOP-----	(to be disregarded)	
-----LOP----->	<-----LOP-----		
<-----FAC-----	-----FAC----->		
-----REL----->	-----disconnect----->		
<-----RLC-----	-----REL----->		
	-----disconnect----->		
	<-----RLC-----		

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_11_8_Loop_prevention_procedure_unsuccessful_loop_exists Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – unsuccessful (loop exists) To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "request" and the call transfer reference matches the one used by the IUT. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_8_call_setup1, A_ISUP_PTC : A_11_8_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_8_call_setup2, B_ISUP_PTC : B_11_8_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_8_ECT_request, A_ISUP_PTC : A_11_8_loop_prevention, B_ISUP_PTC : B_11_8_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		+check_idle			
9		+postamble			
10		U_11_8_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
11		A_11_8_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
12		U_11_8_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
13		B_11_8_call_setup2 + B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			
		U_11_8_ECT_request			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
15		+ A_access_RECEIVE (facility_o_r_anycomp (TCV_flag_dss1, TSV_CREF1))			
16		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
		A_11_8_loop_prevention			
17		+ A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
18		+ A_SEND (LOP_s_AU_Loop_prevention_request (TCV_A_cic))			...and sends back what it has received
19		+ A_RECEIVE (REL)			A receives REL; ECT rejected
20		+ A_SEND (RLC)			
		B_11_8_loop_prevention			
21		+ B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
22		+ B_SEND (LOP_s_BU_Loop_prevention_request (TCV_B_cic))			...and sends back what it has received
23		+ B_RECEIVE (REL)			B receives REL; ECT rejected
24		+ B_SEND (RLC)			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.

```

SPC          SPA          SPB
      1st call      2nd call
<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
                      <-----ANM-----
<-----LOP----- -----LOP----->
-----LOP-----> <-----LOP----- (received messages are returned)
<-----REL----- -----REL----->
-----RLC-----> <-----RLC-----

```

1. Initiate 2 calls from the UNI A (IUT).
2. Assist 1st call set up on the left side (SPC).
3. Assist 2nd call set up on the right side (SPB).
4. Send back the received CTRef with LOPInd request (identical to the one received).
5. Call is rejected.

Implementation:

```

SPA          IUT          SPB          access
<-----IAM----- <-----setup-----
-----ACM-----> -----call.proc----->
                      -----alert----->
-----ANM-----> -----connect----->
<-----CPG---hold 1st call<-----hold-----

```

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Test Case Dynamic Behaviour	
Detailed Comments : ...	<div><div>-----hold_ack-----></div><div><-----setup-----</div><div>-----IAM-----></div><div>-----call.proc-----></div><div><-----ACM-----</div><div>-----alert-----></div><div><-----ANM-----</div><div>-----connect-----></div><div><-----facility-----</div><div><-----LOP----- -----LOP-----></div><div>-----LOP-----> <-----LOP-----</div><div><-----REL----- -----disconnect-----></div><div>-----RLC-----></div><div>-----REL-----></div><div>-----disconnect-----></div><div><-----RLC-----</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_9_Loop_prevention_procedure_unsuccessful_interaction_with_ECT Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – unsuccessful (interaction with ECT) <p>To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "response" and "simultaneous transfer" in case of interaction with ECT.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1; 7.6.2/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_9_call_setup1, A_ISUP_PTC : A_11_9_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_9_call_setup2, B_ISUP_PTC : B_11_9_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_9_ECT_request, A_ISUP_PTC : A_11_9_loop_prevention, B_ISUP_PTC : B_11_9_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		+check_idle			
9		+postamble			
10		U_11_9_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
11		A_11_9_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
12		U_11_9_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
13		B_11_9_call_setup2 + B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		U_11_9_ECT_request + A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
15		+ A_access_RECEIVE (facility_o_r_anycomp (TCV_flag_dss1, TSV_CREF1))			
16		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
17		A_11_9_loop_prevention + A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request 4.
18		+ A_SEND (LOP_s_AU_Simultaneous_transfer_indication (TCV_A_cic))			
19		+ A_RECEIVE (REL)			A receives REL; ECT rejected
20		+ A_SEND (RLC)			
21		B_11_9_loop_prevention + B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request 4.
22		+ B_SEND (LOP_s_BU_Simultaneous_transfer_indication (TCV_B_cic))			
23		+ B_RECEIVE (REL)			B receives REL; ECT rejected
24		+ B_SEND (RLC)			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.

```

SPC          SPA          SPB
      1st call          2nd call
<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
                      <-----ANM-----
<-----LOP----- <-----LOP----->
-----LOP-----> <-----LOP-----> (simultaneous transfer)
<-----REL----- <-----REL----->
-----RLC-----> <-----RLC----->

```

1. Initiate 2 calls from the UNI A (IUT).
2. Assist 1st call set up on the left side (SPC).
3. Assist 2nd call set up on the right side (SPB).
4. Send back the received CTRef with LOPInd response set to simultaneous transfer.
5. The call is rejected.

Implementation:

```

SPA          IUT          SPB          access
<-----IAM----- <-----setup-----
-----ACM-----> -----call.proc----->
                      -----alert----->
-----ANM-----> -----connect----->
<-----CPG---hold 1st call<-----hold-----
                      -----hold_ack----->

```

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	<-----setup----->
	-----IAM----->
	-----call.proc----->
	<-----ACM----->
	-----alert----->
	<-----ANM----->
	-----connect----->
	<-----facility----->
<-----LOP----->	-----LOP----->
-----LOP----->	<-----LOP----->
<-----REL----->	-----disconnect----->
-----RLC----->	
	-----REL----->
	-----disconnect----->
	<-----RLC----->

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_10_Loop_prevention_procedure_unsuccessful_interworking_situation Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – unsuccessful (interworking situation) <p>To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "response" and "insufficient information" from e.g. interworking situations.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_10_call_setup1, A_ISUP_PTC : A_11_10_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_10_call_setup2, B_ISUP_PTC : B_11_10_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_10_ECT_request, A_ISUP_PTC : A_11_10_loop_prevention, B_ISUP_PTC : B_11_10_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		+check_idle			
9		+postamble			
10		U_11_10_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
11		A_11_10_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
12		U_11_10_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
		B_11_10_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
13		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic)) U_11_10_ECT_request			
14		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
15		+ A_access_RECEIVE (facility_o_r_anycomp (TCV_flag_dss1, TSV_CREF1))			
16		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2 A_11_10_loop_prevention			
17		+ A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
18		+ A_SEND (LOP_s_AU_Insufficient_information (TCV_A_cic))			4.
19		+ A_RECEIVE (REL)			A receives REL; ECT rejected
20		+ A_SEND (RLC)			
21		B_11_10_loop_prevention + B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
22		+ B_SEND (LOP_s_BU_Insufficient_information (TCV_B_cic))			4.
23		+ B_RECEIVE (REL)			B receives REL; ECT rejected
24		+ B_SEND (RLC)			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- <-----LOP----- LOP-----> -----LOP-----> <-----LOP----- (insufficient information) <-----REL----- REL-----> -----RLC-----> <-----RLC----- </pre> <hr/> <p>1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. Send back the received CTRef with LOPInd response set to insufficient information. 5. Call is rejected.</p> <p>Implementation:</p> <pre> SPA IUT SPB access <-----IAM----- <-----setup----- </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	-----ACM-----> -----call.proc----->
	-----alert----->
	-----ANM-----> -----connect----->
	<-----CPG---hold 1st call<-----hold-----
	-----hold_ack----->
	<-----setup-----
	-----IAM----->
	-----call.proc----->
	<-----ACM-----
	-----alert----->
	<-----ANM-----
	-----connect----->
	<-----facility-----
	<-----LOP-----> -----LOP----->
	-----LOP-----> <-----LOP-----
	<-----REL-----> -----disconnect----->
	-----RLC----->
	-----REL----->
	-----disconnect----->
	<-----RLC-----

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_11_Loop_prevention_procedure_successful_interworking_situation Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – successful (interworking situation) <p>To verify that the local exchange controlling the ECT completes the call transfer if the LOP is received with loop prevention indicator set to "response" and "insufficient information" from e.g. interworking situations.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_11_call_setup1, A_ISUP_PTC : A_11_11_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_11_call_setup2, B_ISUP_PTC : B_11_11_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_11_ECT_request, A_ISUP_PTC : A_11_11_loop_prevention, B_ISUP_PTC : B_11_11_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_11_call_release, B_ISUP_PTC : B_11_11_call_release, A_ACCESS_PTC : U_11_11_call_release)			
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_11_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_11_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_11_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
		B_11_11_call_setup2			
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			
		U_11_11_ECT_request			
16		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
		A_11_11_loop_prevention			
17		+ A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
18		+ A_SEND (LOP_s_AU_Insufficient_information (TCV_A_cic))			4.
19		+ A_RECEIVE (FAC_r_UA (TCV_A_cic))			A receives REL; ECT rejected
		B_11_11_loop_prevention			
20		+ B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
21		+ B_SEND (LOP_s_BU_Insufficient_information (TCV_B_cic))			4.
22		+ B_RECEIVE (FAC_r_UB (TCV_B_cic))			B receives REL; ECT rejected
		A_11_11_call_release			
23		+ A_SEND_CALL_REL			
		B_11_11_call_release			
24		+ B_RECEIVE_CALL_REL			
		U_11_11_call_release			
25		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- <-----LOP----- <-----LOP-----> -----LOP-----> <-----LOP----- (insufficient information) <-----FAC----- <-----FAC-----> : </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

1. Initiate 2 calls from the UNI A (IUT).
2. Assist 1st call set up on the left side (SPC).
3. Assist 2nd call set up on the right side (SPB).
4. Send back the received CTRef with LOPInd response set to insufficient information.
5. FAC activating the ECT service.

Implementation:

SPA	IUT	SPB	access
<-----IAM-----	<-----setup-----		
-----ACM----->	-----call.proc----->		
	-----alert----->		
-----ANM----->	-----connect----->		
<-----CPG---hold 1st call<	-----hold-----		
	-----hold_ack----->		
	<-----setup-----		
	-----IAM----->		
	-----call.proc----->		
	<-----ACM-----		
	-----alert----->		
	<-----ANM-----		
	-----connect----->		
	<-----facility-----		
<-----LOP-----	-----LOP----->		
-----LOP----->	<-----LOP-----		
<-----FAC-----	-----FAC----->		
-----REL----->	-----disconnect----->		
<-----RLC-----	-----REL----->		
	-----disconnect----->		
	<-----RLC-----		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_12_Loop_prevention_procedure_unsuccessful_on_timer_expiry Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – unsuccessful on timer expiry To verify that the local exchange controlling the ECT rejects the call transfer if no LOP is received within TECT expiry Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_12_call_setup1, A_ISUP_PTC : A_11_12_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_12_call_setup2, B_ISUP_PTC : B_11_12_call_setup2)			Setup 2nd call (U → B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_12_ECT_request, A_ISUP_PTC : A_11_12_loop_prevention, B_ISUP_PTC : B_11_12_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		+check_idle			
9		+postamble			
10		U_11_12_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
11		A_11_12_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
12		U_11_12_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			
13		B_11_12_call_setup2 + B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		U_11_12_ECT_request + A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
15		+ A_access_RECEIVE (facility_o_r_anycomp (TCV_flag_dss1, TSV_CREF1))			
16		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
		A_11_12_loop_prevention			
17		START T_ECTmin, START T_ECTmax			
18		+ A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
19		? TIMEOUT T_ECTmin			
20		? TIMEOUT T_ECTmax			
21		+ A_SEND (REL)			
22		+ A_RECEIVE (RLC)			
23		+ A_RECEIVE (REL)			A receives REL; ECT rejected
24		CANCEL T_ECTmax			
25		+ A_SEND (RLC)			
26		+ A_RECEIVE (REL)			
27		CANCEL T_ECTmin, CANCEL T_ECTmax			
28		+ A_SEND (RLC)			
		B_11_12_loop_prevention			
29		START T_ECTmin, START T_ECTmax			
30		+ B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
31		? TIMEOUT T_ECTmin			
32		? TIMEOUT T_ECTmax		(F)	
33		+ B_SEND (REL)			
34		+ B_RECEIVE (RLC)			
35		+ B_RECEIVE (REL)			B receives REL; ECT rejected
36		CANCEL T_ECTmax			
37		+ B_SEND (RLC)			
38		+ B_RECEIVE (REL)			
39		CANCEL T_ECTmin, CANCEL T_ECTmax			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT. <div style="margin-left: 40px;"> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- <-----LOP----- <-----LOP-----> No LOP response is sent, TECT expires </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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<-----REL-----> <-----REL----->
-----RLC-----> <-----RLC-----

```

1. Initiate 2 calls from the UNI A (IUT).
2. Assist 1st call set up on the left side (SPC).
3. Assist 2nd call set up on the right side (SPB).
4. Call is rejected.

Implementation:

SPA	IUT	SPB	access
<-----IAM-----	<-----setup-----		
-----ACM----->	-----call.proc----->		
	-----alert----->		
-----ANM----->	-----connect----->		
<-----CPG---hold 1st call<	-----hold-----		
	-----hold_ack----->		
	<-----setup-----		
	-----IAM----->		
	-----call.proc----->		
	<-----ACM-----		
	-----alert----->		
	<-----ANM-----		
	-----connect----->		
	<-----facility-----		
<-----LOP-----	<-----LOP----->		
No LOP response is sent, TECT expires			
<-----REL-----	-----disconnect----->		
-----RLC----->			
	-----REL----->		
	-----disconnect----->		
	<-----RLC-----		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_13_Loop_prevention_procedure_successful_on_timer_expiry Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – successful on timer expiry To verify that the local exchange controlling the ECT completes the call transfer if no LOP is received within TECT expiry Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_13_call_setup1, A_ISUP_PTC : A_11_13_call_setup1)			
3		? DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_13_call_setup2, B_ISUP_PTC : B_11_13_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_13_ECT_request, A_ISUP_PTC : A_11_13_loop_prevention, B_ISUP_PTC : B_11_13_loop_prevention)			
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_13_call_release, B_ISUP_PTC : B_11_13_call_release, A_ACCESS_PTC : U_11_13_call_release)			
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_13_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) A_11_13_call_setup1			
13		+ A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_13_call_setup2			ANM is modified
14		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		B_11_13_call_setup2 + B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			ANM
16		U_11_13_ECT_request + A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			User activates ECT @ DSS1 side
17		A_11_13_loop_prevention START T_ECTmin, START T_ECTmax			
18		+ A_RECEIVE (LOP_r_UA_Loop_prevention_request (TCV_A_cic))			A receives loop indication request
19		? TIMEOUT T_ECTmin			
20		? TIMEOUT T_ECTmax		(F)	
21		+ A_RECEIVE (FAC_r_UA (TCV_A_cic))			
22		CANCEL T_ECTmax			
23		+ A_RECEIVE (FAC_r_UA (TCV_A_cic))			A receives REL; ECT rejected
24		CANCEL T_ECTmin, CANCEL T_ECTmax			
25		B_11_13_loop_prevention START T_ECTmin, START T_ECTmax			
26		+ B_RECEIVE (LOP_r_UB_Loop_prevention_request (TCV_B_cic))			B receives loop indication request
27		? TIMEOUT T_ECTmin			
28		? TIMEOUT T_ECTmax		(F)	
29		+ B_RECEIVE (FAC_r_UB (TCV_B_cic))			B receives REL; ECT rejected
30		CANCEL T_ECTmax			
31		+ B_RECEIVE (FAC_r_UB (TCV_B_cic))			
32		CANCEL T_ECTmin, CANCEL T_ECTmax			
33		A_11_13_call_release + A_SEND_CALL_REL			
34		B_11_13_call_release + B_RECEIVE_CALL_REL			
35		U_11_13_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
<div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> SPC SPA SPB </div> <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> 1st call 2nd call </div> <pre> <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----ANM----- </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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<-----LOP-----> -----LOP----->
      No LOP response is sent, TECT expires
<-----FAC-----> -----FAC----->
:

```

-
1. Initiate 2 calls from the UNI A (IUT).
 2. Assist 1st call set up on the left side (SPC).
 3. Assist 2nd call set up on the right side (SPB).
 4. TECT expired, release the call.
 5. FAC activating the ECT service.
 6. The call should not be released.

Implementation:

SPA	IUT	SPB	access
<-----IAM----->	<-----setup----->		
-----ACM----->	-----call.proc----->		
	-----alert----->		
-----ANM----->	-----connect----->		
<-----CPG---hold 1st call<-----	-----hold----->		
	-----hold_ack----->		
	<-----setup----->		
	-----IAM----->		
	-----call.proc----->		
	<-----ACM----->		
	-----alert----->		
	<-----ANM----->		
	-----connect----->		
	<-----facility----->		
<-----LOP----->	<-----LOP----->		
No LOP response is sent, TECT expires			
<-----FAC----->	<-----FAC----->		
-----REL----->	-----disconnect----->		
<-----RLC----->	-----REL----->		
	-----disconnect----->		
	<-----RLC----->		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_14_a_Facility_message_with_generic_notification_sent_to_the_remote_user Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Facility message with generic notification sent to the remote user <p>To verify that the local exchange controlling the ECT can successfully initiate a call transfer by sending FAC with the generic notification set to "call transfer, active" or "call transfer, alerting" and the service activation parameter set to "call transfer".</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.2 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_14_a_call_setup1, A_ACCESS_PTC : U_11_14_a_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_14_a_call_setup2, B_ISUP_PTC : B_11_14_a_call_setup2)			Setup 2nd call (U -> B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_14_a_facility, A_ISUP_PTC : A_11_14_a_facility, B_ISUP_PTC : B_11_14_a_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_14_a_call_release, B_ISUP_PTC : B_11_14_a_call_release, A_ACCESS_PTC : U_11_14_a_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_14_a_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
13		U_11_14_a_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
14		U_11_14_a_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_14_a_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic)) U_11_14_a_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id))) A_11_14_a_facility			
17		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active_and_service_ activation_ct (TCV_A_cic)) B_11_14_a_facility			
18		+ B_RECEIVE (FAC_r_UB_Generic_notification_ind_ct_active_and_service_ activation_ct (TCV_B_cic)) A_11_14_a_call_release			
19		+ A_SEND_CALL_REL B_11_14_a_call_release			
20		+ B_RECEIVE_CALL_REL U_11_14_a_call_release			
21		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			

Detailed Comments : Pre-test conditions

Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.

Case a)

SPC SPA SPB

```

      1st call      2nd call
-----IAM----->
<-----ACM-----
<-----ANM-----
<-----CPG----- hold 1st call
                      -----IAM----->
                      <-----ACM-----
                      <-----ANM-----
<-----FAC----- <-----FAC----->
> call transfer, active <   > call transfer, active <
:
```

1. Assist call setup for the 1st call and then initiate the 2nd call at the UNI A (IUT).

2. Initiate the 1st call set up on the left side (SPC).

3. Assist 2nd call set up on the right side (SPB).

4. FAC with GenNot: call transfer, active and ServAct: call transfer.

Implementation:

```

SPA          IUT          SPB          access
-----IAM-----> -----setup----->
<-----ACM----- <-----call.proc-----
                      <-----alert-----
<-----ANM----- <-----connect-----
                      -----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
                      -----hold_ack----->

                      <-----setup-----
                      -----IAM----->
                      -----call.proc----->
```

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	<-----ACM-----
	-----alert----->
	<-----ANM-----
	-----connect ----->
	<-----facility-----
<-----FAC-----	-----FAC----->
> call transfer, active <	> call transfer, active <
-----REL----->	-----disconnect----->
<-----RLC-----	
	-----REL----->
	-----disconnect----->
	<-----RLC-----

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_14_b_Facility_message_with_generic_notification_sent_to_the_remote_user Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Facility message with generic notification sent to the remote user <p>To verify that the local exchange controlling the ECT can successfully initiate a call transfer by sending FAC with the generic notification set to "call transfer, active" or "call transfer, alerting" and the service activation parameter set to "call transfer".</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.2 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_14_b_call_setup1, A_ACCESS_PTC : U_11_14_b_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_14_b_call_setup2, B_ISUP_PTC : B_11_14_b_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_14_b_facility, A_ISUP_PTC : A_11_14_b_facility, B_ISUP_PTC : B_11_14_b_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_14_b_call_release, B_ISUP_PTC : B_11_14_b_call_release, A_ACCESS_PTC : U_11_14_b_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_14_b_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
13		U_11_14_b_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
14		U_11_14_b_call_setup2 + A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		B_11_14_b_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_14_b_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2))			
18		A_11_14_b_facility +A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting_and_service_activation_ct (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
20		B_11_14_b_facility +B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic))			
22		A_11_14_b_call_release + A_SEND_CALL_REL			
23		B_11_14_b_call_release + B_RECEIVE_CALL_REL			
24		U_11_14_b_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <p>Case b)</p> <p>SPC SPA SPB</p> <p> 1st call 2nd call</p> <p>-----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- <-----CPG-----> > call transfer, alerting < > call transfer, active < <-----FAC----- <-----ANM----- call transfer, active :</p> <hr/> <p>1. Assist call setup for the 1st call and then initiate the 2nd call at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active.</p> <p>Implementation:</p> <p>SPA IUT SPB access</p> <p>-----IAM-----> -----setup-----> <-----ACM----- <-----call.proc-----</p>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```

                                     <-----alert-----
<-----ANM----- <-----connect-----
                                     -----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
                                     -----hold_ack----->

                                     <-----setup-----
                                     -----IAM----->
                                     -----call.proc----->
<-----ACM-----
                                     -----alert----->
<-----facility-----
<-----FAC----- -----CPG----->
> call transfer, alerting < > call transfer, active <
<-----FAC----- <-----ANM-----
                                     -----connect----->
    call transfer, active
-----REL-----> -----disconnect----->
<-----RLC-----
                                     -----REL----->
                                     -----disconnect----->
                                     <-----RLC-----
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_15_Call_progress_message_with_generic_notification_sent_to_the_remote_user Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Call progress message with generic notification sent to the remote user <p>To verify that the local exchange (controlling the ECT) can successfully initiate a call transfer by sending CPG with the generic notification set to "call transfer, active" and the service activation parameter set to "call transfer".</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.2 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_15_call_setup1, A_ACCESS_PTC : U_11_15_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_15_call_setup2, B_ISUP_PTC : B_11_15_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_15_facility, A_ISUP_PTC : A_11_15_facility, B_ISUP_PTC : B_11_15_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_15_call_release, B_ISUP_PTC : B_11_15_call_release, A_ACCESS_PTC : U_11_15_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_15_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_15_call_setup1			
13		+ A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_15_call_setup2			
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2)) B_11_15_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_15_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2)) A_11_15_facility			
18		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_15_facility			
20		+B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active_and_service_activation_ct (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic)) A_11_15_call_release			
22		+ A_SEND_CALL_REL B_11_15_call_release			
23		+ B_RECEIVE_CALL_REL U_11_15_call_release			
24		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- <-----CPG-----> > call transfer, alerting < > call transfer, active < <-----FAC----- <-----ANM----- call transfer, active : </pre> <hr/> <ol style="list-style-type: none"> 1. Assist call setup for the 1st call and then initiate the 2nd call at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active and ServAct: call transfer. <p>Implementation:</p> <pre> SPA IUT SPB access -----IAM-----> -----setup-----> <-----ACM----- <-----call.proc----- <-----ANM----- <-----alert----- <-----ANM----- <-----connect----- -----conn_ack-----> </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----CPG---hold 1st call<-----hold----->
                        -----hold_ack----->

                        <-----setup----->
                        -----IAM----->
                        -----call.proc----->
                        <-----ACM----->
                        -----alert----->
                        <-----facility----->

<-----FAC-----> -----CPG----->
> call transfer, alerting < > call transfer, active <
<-----FAC-----> <-----ANM----->
                        -----connect ----->

call transfer, active
-----REL-----> -----disconnect----->
<-----RLC----->

                        -----REL----->
                        -----disconnect----->
                        <-----RLC----->
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_16_Facility_message_send_upon_receipt_of_the_ANM_when_the_ECT_is_invoked_while_one_call_is_alerting Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Facility message send upon receipt of the ANM when the ECT is invoked while one call is alerting <p>To verify that, in case the ECT is invoked while one call is alerting, as soon as the local exchange (controlling the ECT) receives the ANM, it can successfully send to the other remote user the FAC with service activation set to "call transfer" and the generic notification set to "call transfer, active".</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.2 b)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_16_call_setup1, A_ACCESS_PTC : U_11_16_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_16_call_setup2, B_ISUP_PTC : B_11_16_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_16_facility, A_ISUP_PTC : A_11_16_facility, B_ISUP_PTC : B_11_16_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_16_call_release, B_ISUP_PTC : B_11_16_call_release, A_ACCESS_PTC : U_11_16_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_16_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
13		U_11_16_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
14		U_11_16_call_setup2 + A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		B_11_16_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_16_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2)) A_11_16_facility			
18		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active_and_service_activation_ct (TCV_A_cic)) B_11_16_facility			
20		+B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
21		+B_SEND (ANM_o (TCV_B_cic)) A_11_16_call_release			
22		+ A_SEND_CALL_REL B_11_16_call_release			
23		+ B_RECEIVE_CALL_REL U_11_16_call_release			
24		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- -----CPG-----> > call transfer, alerting < > call transfer, active < <-----FAC----- <-----ANM----- > call transfer, active < :</pre> <hr/> <p>1. Assist call setup for the 1st call and then initiate the 2nd call at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active.</p> <p>Implementation:</p> <pre> SPA IUT SPB access -----IAM-----> -----setup-----> <-----ACM----- <-----call.proc----- <-----alert-----</pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----ANM-----<-----connect----->
                      -----conn_ack----->
<-----CPG---hold 1st call<-----hold----->
                      -----hold_ack----->

                      <-----setup----->
                      -----IAM----->
                      -----call.proc----->
<-----ACM----->
                      -----alert----->
<-----facility----->
<-----FAC----->-----CPG----->
> call transfer, alerting < > call transfer, active <
<-----FAC-----<-----ANM----->
                      -----connect----->
call transfer, active
-----REL----->-----disconnect----->
<-----RLC----->
                      -----REL----->
                      -----disconnect----->
<-----RLC----->
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_17_Capability_of_sending_the_additional_connected_number_in_the_call_transfer_number_parameter_when_the_ECT_is_invoked_while_one_call_is_alerting Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of sending the additional connected number in the call transfer number parameter when the ECT is invoked while one call is alerting To verify that, in case the ECT is invoked while one call is alerting, the FAC sent to the other remote user upon receipt of the ANM conveys the call transfer number parameter with the information received in the generic number parameter if both the connected number and an additional connected number in the generic number are received in the ANM. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.2 b)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_17_call_setup1, A_ISUP_PTC : A_11_17_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_17_call_setup2, B_ISUP_PTC : B_11_17_call_setup2)			Setup 2nd call (U → B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_17_facility, A_ISUP_PTC : A_11_17_facility, B_ISUP_PTC : B_11_17_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_17_call_release, B_ISUP_PTC : B_11_17_call_release, A_ACCESS_PTC : U_11_17_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_17_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_17_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_and_generic_number_A (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_17_call_setup2			

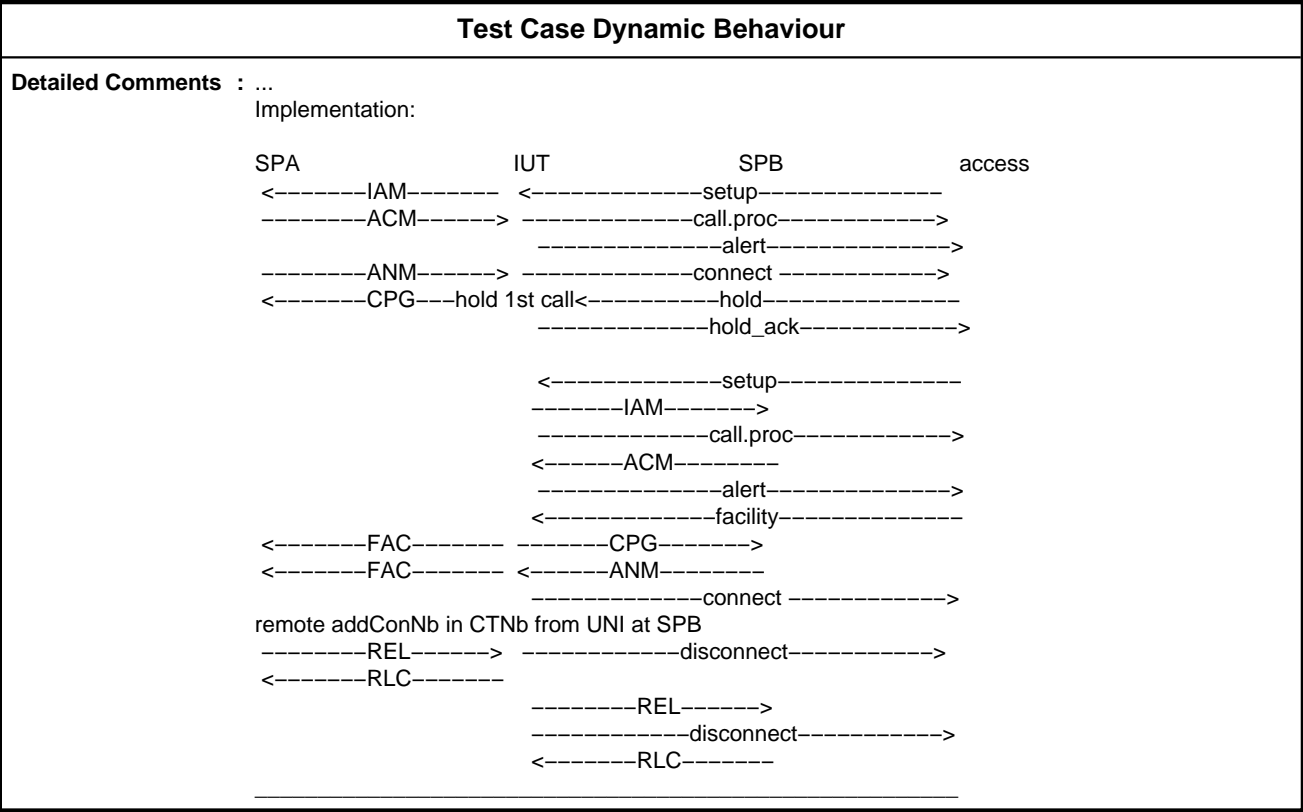
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			
15		B_11_17_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic))			
16		U_11_17_facility +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2))			
18		A_11_17_facility +A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_National_CTNb_and_generic_notification_ind_ct_active_and_service_activation_ct (TCV_A_cic))			
20		B_11_17_facility + B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
21		+B_SEND (ANM_s_BU_National_connected_and_generic_number (TCV_B_cic))			
22		A_11_17_call_release + A_SEND_CALL_REL			
23		B_11_17_call_release + B_RECEIVE_CALL_REL			
24		U_11_17_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- <-----CPG-----> <-----FAC----- <-----ANM----- remote addConNb in CTNb from UNI at SPB : </pre> <hr/> <ol style="list-style-type: none"> 1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active. 					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_18_Capability_of_sending_the_connected_number_in_the_call_transfer_number_parameter_when_the_ECT_is_invoked_while_one_call_is_alerting Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Capability of sending the connected number in the call transfer number parameter when the ECT is invoked while one call is alerting <p>To verify that, in case the ECT is invoked while one call is alerting, the FAC sent to the other remote user upon receipt of the ANM conveys the call transfer number parameter with the information received in the connected number parameter if only the connected number is received in the ANM.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.2.2 b)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC : U_11_18_call_setup1, A_ISUP_PTC : A_11_18_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_18_call_setup2, B_ISUP_PTC : B_11_18_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_18_facility, A_ISUP_PTC : A_11_18_facility, B_ISUP_PTC : B_11_18_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_18_call_release, B_ISUP_PTC : B_11_18_call_release, A_ACCESS_PTC : U_11_18_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		U_11_18_call_setup1 + A_access_CALL_SETUP_AND_HOLD_UA (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), alert_o_r (TSV_CREF1), connect_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
13		A_11_18_call_setup1 + A_CALL_SETUP_AND_HOLD_UA (IAM_r_UA (TCV_A_cic), ACM_o (TCV_A_cic), ANM_s_AU_National_connected_number (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_18_call_setup2			

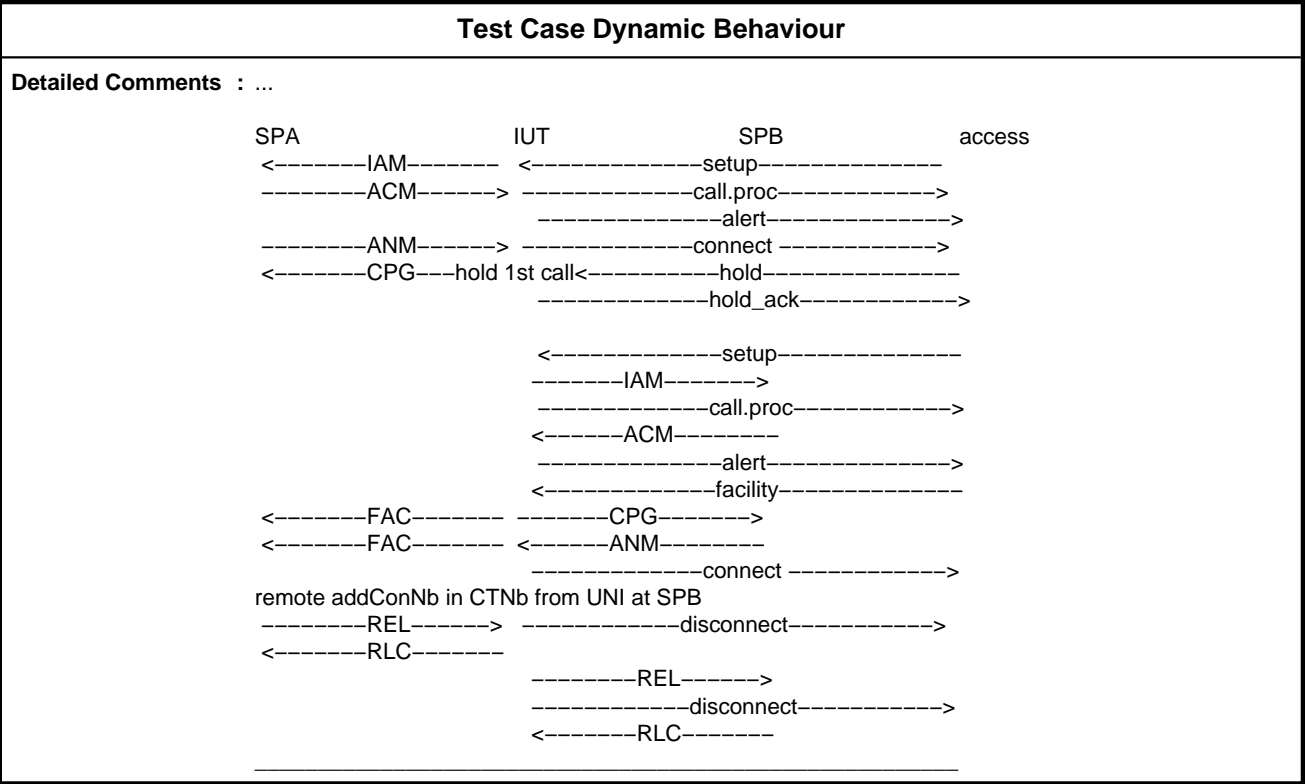
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			
15		B_11_18_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic))			
16		U_11_18_facility +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2))			
18		A_11_18_facility +A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_National_CTNb_and_generic_notification_ind_ct_active_and_service_activation_ct (TCV_A_cic))			
20		B_11_18_facility + B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
21		+B_SEND (ANM_s_BU_National_connected_number (TCV_B_cic))			
22		A_11_18_call_release + A_SEND_CALL_REL			
23		B_11_18_call_release + B_RECEIVE_CALL_REL			
24		U_11_18_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> <pre> SPC SPA SPB 1st call 2nd call <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----FAC----- <-----CPG-----> <-----FAC----- <-----ANM----- remote ConNb in CTNb from UNI at SPB : </pre> <hr/> <ol style="list-style-type: none"> 1. Initiate 2 calls from the UNI A (IUT). 2. Assist 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active. <p>Implementation:</p>					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_19_IUT_passes_loop_prevention_indicator_and_call_transfer_reference Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the exchange can successfully pass on the loop prevention indicator and the call transfer reference in the LOP related to the call transfer service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.3.1; 9.4.1; 9.5.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_SEND (LOP_s_AB_Loop_prevention_request (TCV_A_cic))			
13		+A_RECEIVE (LOP_r_BA_No_loop_indication (TCV_A_cic))			
14		+A_SEND (FAC_s_AB_Generic_notification_ind_ct_active (TCV_A_cic))			
		A_call_release			
15		+A_RECEIVE_CALL_REL			
		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		+B_RECEIVE (LOP_r_AB_Loop_prevention_request (TCV_B_cic))			
20		+B_SEND (LOP_s_BA_No_loop_indication (TCV_B_cic))			
21		+B_RECEIVE (FAC_r_AB_Generic_notification_ind_ct_active (TCV_B_cic))			
		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- -----LOP-----> -----LOP----->					

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Test Case Dynamic Behaviour

Detailed Comments : ...

<-----LOP----- <-----LOP-----

-----FAC-----> -----FAC----->

<-----REL----- <-----REL-----

-----RLC-----> -----RLC----->

-
1. Initiate a call from the UNI at SPC.
 2. Send back the received CTRef with "no loop exists indication".
 3. FAC activating the ECT service.

Implementation:

TTCN IUT TTCN

!-----IAM----->!-----IAM----->!

!<-----ACM-----!<-----ACM-----!

.....ringing tone.....

!<-----ANM-----!<-----ANM-----!

.....check communication.....

!-----LOP----->!-----LOP----->! Loop prevention request

!<-----LOP-----!<-----LOP-----! Loop prevention response with no loop exists

!<-----FAC-----!<-----FAC-----! call transfer, active

!<-----REL-----!<-----REL-----!

!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_20_a_Generic_notification_indicators_in_FAC Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the exchange can successfully pass on the access transport and the generic notification indicator in the FAC or CPG related to the call transfer service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7;9.3.1;9.4.1;9.5.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_SEND (FAC_s_AB_Generic_notification_ind_ct_active (TCV_A_cic))			Send FAC with call transfer active
13		+A_SEND (FAC_s_AB_ATP_calling_party_sub_address (TCV_A_cic))			Send FAC with subaddress
14		+A_RECEIVE (FAC_r_BA_ATP_called_party_sub_address (TCV_A_cic))			
		A_call_release			
15		+A_RECEIVE_CALL_REL			
		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		+B_RECEIVE (FAC_r_AB_Generic_notification_ind_ct_active (TCV_B_cic))			
20		+B_RECEIVE (FAC_r_AB_ATP_calling_party_sub_address (TCV_B_cic))			
21		+B_SEND (FAC_s_BA_ATP_called_party_sub_address (TCV_B_cic))			Send FAC with subaddress
		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM-----					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

... ringing tone ...
<-----ANM-----<-----ANM-----
... check communication ...
-----FAC----->-----FAC-----> call transfer, active
-----FAC----->-----FAC-----> subaddress in ATP from UNI at E

<-----FAC-----<-----FAC----- subaddress in ATP from UNI at B

<-----REL-----<-----REL-----
-----RLC----->-----RLC----->

```

-
1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer
 2. FAC with a generic notification : Call transfer, active
 3. Receive subaddress from UNI at SPE, beyond SPC
 4. Send subaddress of UNI at SPB.

Implementation:

```

-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....
!-----FAC----->!-----FAC----->! Call transfer active
!-----FAC----->!-----FAC----->! subaddress in ATP from UNI at E

!<-----FAC-----!<-----FAC-----! subaddress in ATP from UNI at B

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_20_b_ct_active_in_CPG Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the exchange can successfully pass on the access transport and the generic notification indicator in the FAC or CPG related to the call transfer service. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7;9.3.1;9.4.1;9.5.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (**B))			
11		+A_SEND (CPG_s_AB_Generic_notification_ind_ct_active (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (**B))			
13		+A_SEND (FAC_s_AB_ATP_calling_party_sub_address (TCV_A_cic))			Send FAC with subaddress
14		+A_RECEIVE (FAC_r_BA_ATP_called_party_sub_address (**B))			
		A_call_release			
15		+A_RECEIVE_CALL_REL			
		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB (**B))			
17		+B_SEND (ACM_m (TCV_B_cic))			
18		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_ct_active (**B))			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		+B_RECEIVE (FAC_r_AB_ATP_calling_party_sub_address (**B))			
21		+B_SEND (FAC_s_BA_ATP_called_party_sub_address (TCV_B_cic))			Send FAC with subaddress
		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... -----CPG-----> -----CPG-----> call transfer, active <-----ANM----- <-----ANM-----					

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Test Case Dynamic Behaviour

Detailed Comments : ...

... check communication ...

-----FAC-----> -----FAC-----> subaddress in ATP from UNI at E

<-----FAC-----<-----FAC----- subaddress in ATP from UNI at B

<-----REL----- <-----REL-----
 -----RLC-----> -----RLC----->

-
1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer
 2. CPG with a generic notification : Call transfer, active
 3. Receive subaddress from UNI at SPE, beyond SPC
 4. Send subaddress of UNI at SPB.

Implementation:

```

-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!-----CPG----->!-----CPG----->! call transfer, active
!<-----ANM-----!<-----ANM-----!

.....check communication.....

!-----FAC----->!-----FAC----->! subaddress in ATP from UNI at E
!<-----FAC-----!<-----FAC-----! subaddress in ATP from UNI at B

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

```


Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_21_a_IUT_removes_call_transfer_number_in_FAC Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the exchange removes call transfer number in the FAC or CPG before sending it to the next exchange, if its indicator is set to "presentation restricted" and there is no bilateral agreement Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.4.1; 9.5.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_SEND (FAC_s_AB_Call_transfer_number_and_generic_notifica tion_ind_ct_active (TCV_A_cic))			Send FAC with Call transfer number and call transfer active
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+B_SEND (ANM_m (TCV_B_cic))			
17		+B_RECEIVE (FAC_r_AB_Generic_notification_ind_ct_active (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- -----FAC-----> -----FAC-----> CTNb removal <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> <hr/> 1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer 2. FAC with a GenNot : 'Call transfer, active' and CTNb removed. .					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

Implementation:

```
-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....
!-----FAC----->!  Call transfer number with ct active
!-----FAC----->!  CTNb removal

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_21_b_IUT_removes_call_transfer_number_in_CPG Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the exchange removes call transfer number in the FAC or CPG before sending it to the next exchange, if its indicator is set to "presentation restricted" and there is no bilateral agreement Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.4.1; 9.5.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			
10		+A_SEND (IAM_s_AB (TCV_A_cic))			
11		+A_RECEIVE (ACM_m (TCV_A_cic))			
12		+A_SEND (CPG_s_AB_Call_transfer_number_and_generic_notificati on_ind_ct_active (TCV_A_cic))			Send CPG with Call transfer number and call transfer active
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release			
15		+A_RECEIVE_CALL_REL			
16		B_call_setup			
17		+B_RECEIVE_cic (IAM_r_AB ("**B"))			
18		+B_SEND (ACM_m (TCV_B_cic))			
19		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_ct_active (TCV_B_cic))			
20		+B_SEND (ANM_m (TCV_B_cic))			
21		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- -----CPG-----> -----CPG-----> CTNnb removal <-----ANM----- <-----ANM----- <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> 1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer 2. FAC with a GenNot : 'Call transfer, active' and CTNnb removed. .					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Implementation:

```
-----  
TTCN          IUT          TTCN  
!-----IAM----->!-----IAM----->!  
!<-----ACM-----!<-----ACM-----!  
  
!-----CPG----->!  
          !-----CPG----->! CTNb removal  
!<-----ANM-----!<-----ANM-----!  
  
.....check communication.....  
  
!<-----REL-----!<-----REL-----!  
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_22_a_IUT_sets_nature_of_address_indicator_in_call_transfer_number_in_FAC_to_international Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the IUT converts call transfer number to international format. The nature of address indicator shall be set to "international number" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.4.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			
10		+A_SEND (IAM_s_AB (TCV_A_cic))			
11		+A_RECEIVE (ACM_m (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		+A_SEND (FAC_s_AB_National_call_transfer_number_and_generic_notification_ind_ct_active (TCV_A_cic))			Send FAC with Call transfer number and call transfer active
14		A_call_release			
15		+A_RECEIVE_CALL_REL			
16		B_call_setup			
17		+B_RECEIVE_cic (IAM_r_AB (**B))			
18		+B_SEND (ACM_m (TCV_B_cic))			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		+B_RECEIVE (FAC_r_AB_International_call_transfer_number_and_generic_notification_ind_ct_active (TCV_B_cic))			
21		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- -----FAC-----> -----FAC-----> CTNb converted to international <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> 1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer 2. FAC with a GenNot : 'Call transfer, active' and international CTNb.					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

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Implementation:

```
-----
TTCN                IUT                TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....
!-----FAC----->!   National Call transfer number with ct active
                        !-----FAC----->! international CTNb with ct active

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_22_b_IUT_sets_nature_of_address_indicator_in_call_transfer_number_in_CPG_to_international Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the IUT converts the call transfer number to international format. The nature of address indicator shall be set to "international number". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.4.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_SEND (CPG_s_AB_National_call_transfer_number_and_generic_notification_ind_ct_active (TCV_A_cic))			Send CPG with Call transfer number and call transfer active
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (*B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+B_RECEIVE (CPG_r_AB_International_call_transfer_number_and_generic_notification_ind_ct_active (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- -----CPG----- > -----CPG-----> CTNb international <-----ANM----- <-----ANM----- <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> 1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer 2. FAC with a GenNot : 'Call transfer, active' and international CTNb					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

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Implementation:

```
-----  
TTCN          IUT          TTCN  
!-----IAM----->!-----IAM----->!  
!<-----ACM-----!<-----ACM-----!  
  
!-----CPG----->! CTNb national, ct active  
          !-----CPG----->! CTNb international, ct active  
!<-----ANM-----!<-----ANM-----!  
  
.....check communication.....  
  
!<-----REL-----!<-----REL-----!  
!-----RLC----->!-----RLC----->!
```


Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_23_a_IUT_removes_country_code_in_call_transfer_number_in_FAC Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the IUT removes the country code in the address signals of the call transfer number if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.5.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_SEND (FAC_s_AB_International_call_transfer_number_of_own _CC_and_generic_notification_ind_ct_active (TCV_A_cic))			Send FAC with Call transfer number and call transfer active
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+B_SEND (ANM_m (TCV_B_cic))			
17		+B_RECEIVE (FAC_r_AB_National_call_transfer_number_and_generic _notification_ind_ct_active (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- -----FAC-----> -----FAC-----> CTNb converted to national format <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> <hr/> 1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer 2. FAC with a GenNot : 'Call transfer, active' and national significant CTNb. .					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

Implementation:

```
-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....
!-----FAC----->!  International Call transfer number with ct active
                      !-----FAC----->!  national CTNb with ct active

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_23_b_IUT_removes_own_country_code_in_call_transfer_number_in_CPG Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : To verify that the IUT removes the country code in the address signals of the call transfer number if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number". Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 7; 9.4.1/ETS 300 356-14					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_SEND (CPG_s_AB_International_call_transfer_number_of_own_ CC_and_generic_notification_ind_ct_active (TCV_A_cic))			Send CPG with Call transfer number and call transfer active
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+B_RECEIVE (CPG_r_AB_National_call_transfer_number_and_generic_ notification_ind_ct_active (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- -----CPG-----> -----CPG-----> CTNb national format <-----ANM----- <-----ANM----- <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> 1. Initiate a call from the UNI at SPC. UNI at SPC will indicate a call transfer 2. FAC with a GenNot : 'Call transfer, active' and national (significant)CTNb					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

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Implementation:

```
-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

!-----CPG----->! CTNb international, ct active
!-----CPG----->! CTNb national, ct active
!<-----ANM-----!<-----ANM-----!

.....check communication.....

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_24_ECT_interaction_with_echo_control Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : ECT – interaction with echo control <p>To verify that the local exchange (controlling the ECT) can successfully initiate echo control procedures, when the total propagation delay for the two legs of the call to be transferred requires usage of echo control devices. The information to be summed is received in the propagation delay counter of the IAM for incoming calls and in the call history information of the ANM/CON for outgoing calls. Note: The used PICS are defined for the basic call (BCall).</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.5.2.1.1.3 a)/Q.732.7 Arrange the data in the IUT so that the served user subscribes to ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_24_call_setup1, A_ACCESS_PTC : U_11_24_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_24_call_setup2, B_ISUP_PTC : B_11_24_call_setup2)			Setup 2nd call (U → B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_24_facility, A_ISUP_PTC : A_11_24_facility, B_ISUP_PTC : B_11_24_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_24_call_release, B_ISUP_PTC : B_11_24_call_release, A_ACCESS_PTC : U_11_24_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_24_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_PDC (TCV_A_cic, '50'O), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
13		U_11_24_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
14		U_11_24_call_setup2 + A_access_CALL_SETUP_UB (setup_no_calling_party_number_channel (TCV_flag_dss1, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		B_11_24_call_setup2 + B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_CHInf (TCV_B_cic, '50'O))			
16		U_11_24_facility +A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		A_11_24_facility +A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
18		B_11_24_facility +B_RECEIVE (FAC_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
19		A_11_24_call_release + A_SEND_CALL_REL			
20		B_11_24_call_release + B_RECEIVE_CALL_REL			
21		U_11_24_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM(PDC=50)--> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <--ANM(CHInf=50)----- <-----FAC----- -----FAC-----> : </pre> <hr/> <ol style="list-style-type: none"> 1. Assist call setup for the 1st call and then initiate the 2nd call at the UNI A (IUT). 2. Initiate the 1st call from SPC to the IUT (SPA) using the number TSP_Nb_A on the 1st B-channel. The stimulus IAM contains an initial propagation delay value of e.g. 50 ms. The actual value is stored in PIXIT table 3. Assist the 2nd call set up from UNI A to the IUT on the 2nd B-channel. 4. Send an ANM with Call history information of e.g. 50 ms. 5. FAC with GenNot: call transfer, active. The sum (in this case 100 ms) of the propagation delays on the two routes would require echo controlling devices. Are echo control devices enabled for the connection (both incoming/outgoing at the local exchange) or is some better placement searched? For further study,(see also CONF test case ISS_10_1). <p>Implementation:</p> <pre> SPA IUT SPB access -----IAM(PDC=50)--> -----setup-----> <-----ACM----- <-----call.proc----- <-----alert----- <-----ANM----- <-----connect----- -----conn_ack-----> </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----CPG---hold 1st call<-----hold-----
                        -----hold_ack----->

                        <-----setup-----
                        -----IAM----->
                        -----call.proc----->
                        <-----ACM-----
                        -----alert----->
                        <---ANM(CHInf=50)---
                        -----connect----->
                        <-----facility-----

<-----FAC-----> -----FAC----->
-----REL-----> -----disconnect----->
<-----RLC-----
                        -----REL----->
                        -----disconnect----->
                        <-----RLC-----
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_25_Loop_prevention_procedure__Interworking_with_protocols_not_supporting_loop_prevention Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Loop prevention procedure – Interworking with protocols not supporting loop prevention To verify that the IUT is able to support call control interworking between ISUP 97 and protocols not supporting the loop prevention procedure, and return a LOP (response) message with the indication "insufficient information" in response to a LOP (request) message. Configuration : MTC_and_ISUP_and_NON_ISUP_PTCs Default : Comments : ISUP 97 reference 7.7/Q.732.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ISUP_PTC : A_11_25_call_setup, B_ISUP_PTC : B_11_25_call_setup)			
3		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC : A_11_25_loop_prevention, B_ISUP_PTC : B_11_25_loop_prevention)			
5		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+ check_idle			
7		+ postamble			
8		A_11_25_call_setup A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_IAl_r_UA		
9		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ACM_s_AU		
10		+ check_ringing_tone_at_non_isup_pco			
11		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ANC_s_AU		
12		B_11_25_call_setup + B_CALL_SETUP_BA (IAM_s_BU_Non_isup_called_party_number (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic)) A_11_25_loop_prevention			
13		[TSP_ECT_COMP_LOP]			
14		+ check_communication			
15		A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_CCL_r_UA		
16		[NOT TSP_ECT_COMP_LOP]			
17		A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_CCL_r_UA		
18		B_11_25_loop_prevention + B_SEND (LOP_s_BU_Loop_prevention_request (TCV_B_cic))			2.
19		+ B_RECEIVE (LOP_r_UB_Insufficient_information (TCV_B_cic))			3.
20		[TSP_ECT_COMP_LOP]			
21		+ B_SEND (FAC_s_BU_Generic_notification_ind_ct_active (TCV_B_cic))			4.
22		+ check_communication			
23		+ B_SEND_CALL_REL			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		[NOT TSP_ECT_COMP_LOP]			
25		+ B_SEND_CALL_REL			
<p>Detailed Comments : Pre-test conditions</p> <pre> SPC SPA SPB <-----IAI----- <-----IAM----- -----ACM-----> -----ACM-----> -----ANC-----> -----ANM-----> <-----LOP----- -----LOP-----> <-----FAC----- (PICS A.14/9 = YES) : OR <-----CCL----- <-----REL----- (PICS A.14/9 = NO) </pre> <hr/> <p>1. Assist a call set up from the UNI at SPB on a non-ISUP route. 2. Send LOP request. 3. Receive LOP response with the same CTRef and insufficient information 4. Complete call (YES to PICS question A.14/9) and send FAC with GenNot: call transfer, active. 5. Reject call (YES to PICS question A.14/8). See also ECT test cases ISS_V_11_10 and ISS_V_11_11</p> <p>Implementation:</p> <pre> SPA IUT SPB <-----IAI----- <-----IAM----- -----ACM-----> -----ACM-----> -----ANC-----> -----ANM-----> <-----LOP----- -----LOP-----> <-----FAC----- (PICS A.14/9 = YES) : OR <-----CCL----- <-----REL----- (PICS A.14/9 = NO) -----RLC-----> </pre> <hr/>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_26_a_Notification_Interworking_with_protocols_not_supporting_the_notification_mechanism_or_the_simple_service_activation_procedure Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Notification – Interworking with protocols not supporting the notification mechanism or the simple service activation procedure To verify that the exchange discards the FAC (always) and the CPG (if received during alerting) and successfully completes the call transfer. Configuration : MTC_and_ISUP_and_NON_ISUP_PTCs Default : Comments : ISUP 97 reference 7.7/Q.732.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ISUP_PTC : A_11_26_a_all, B_ISUP_PTC : B_11_26_a_all)			
3		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+ check_communication			
5		CREATE (A_ISUP_PTC : A_11_26_a_call_release, B_ISUP_PTC : B_11_26_a_call_release)			
6		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+ postamble			
8		A_11_26_a_all A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_IAI_r_UA		
9		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ACM_s_AU		
10		+ check_ringing_tone_at_non_isup_pco			
11		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ANC_s_AU		
12		B_11_26_a_all + B_CALL_SETUP_BA (IAM_s_BU_Non_isup_called_party_number (TCV_B_cic), ACM_o (TCV_B_cic), ANM_o (TCV_B_cic))			
13		+ B_SEND (FAC_s_BU_Generic_notification_ind_ct_active (TCV_B_cic))			
14		A_11_26_a_call_release A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_CCL_r_UA		
15		B_11_26_a_call_release + B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Case a) SPC non-ISUP SPA SPB <-----IAI-----> <-----IAM-----> -----ACM-----> -----ACM-----> -----ANC-----> -----ANM-----> <-----FAC-----> call transfer, active : <hr/> 1. Assist a call set up from the UNI at SPB on a non-ISUP route. 2. Send FAC with GenNot: call transfer, active.					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
3. The call should complete.	
Implementation:	
SPA	IUT
<-----IAI-----	<-----IAM-----
-----ACM----->	-----ACM----->
-----ANC----->	-----ANM----->
	<-----FAC----- call transfer, active
<-----CCL-----	<-----REL-----
	-----RLC----->

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_26_b_Notification_Interworking_with_protocols_not_supporting_the_notification_mechanism_or_the_simple_service_activation_procedure Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : Notification – Interworking with protocols not supporting the notification mechanism or the simple service activation procedure To verify that the exchange discards the FAC (always) and the CPG (if received during alerting) and successfully completes the call transfer. Configuration : MTC_and_ISUP_and_NON_ISUP_PTCs Default : Comments : ISUP 97 reference 7.7/Q.732.7					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ISUP_PTC : A_11_26_b_all, B_ISUP_PTC : B_11_26_b_all)			
3		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+ check_communication			
5		CREATE (A_ISUP_PTC : A_11_26_b_call_release, B_ISUP_PTC : B_11_26_b_call_release)			
6		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+ postamble			
8		A_11_26_b_all A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_IAI_r_UA		
9		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ACM_s_AU		
10		+ check_ringing_tone_at_non_isup_pco			
11		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ANC_s_AU		
12		B_11_26_b_all + B_CALL_SETUP_TILL_ACM_BU (IAM_s_BU_Non_isup_called_party_number (TCV_B_cic), ACM_o (TCV_B_cic))			
13		+ B_SEND (CPG_s_BU_Generic_notification_ind_ct_active (TCV_B_cic))			
14		+ B_RECEIVE (ANM_o (TCV_B_cic))			
15		A_11_26_b_call_release A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_CCL_r_UA		
16		B_11_26_b_call_release + B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Case b) SPC non-ISUP SPA SPB <-----IAI-----> <-----IAM-----> -----ACM-----> -----ACM-----> <-----CPG-----> call transfer, active -----ANC-----> -----ANM-----> : <hr/> 1. Assist a call set up from the UNI at SPB on a non-ISUP route.					

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Test Case Dynamic Behaviour

Detailed Comments : ...

2. Send CPG with GenNot: call transfer, active

3. The call should complete.

Implementation:

SPA

IUT

SPB

<-----IAI-----

<-----IAM-----

-----ACM----->

-----ACM----->

<-----CPG-----

call transfer, active

-----ANC----->

-----ANM----->

<-----CCL-----

<-----REL-----

-----RLC----->

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_27_a_ECT_Interaction_with_UUS1 Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : ECT – Interaction with UUS1 <p>To verify that if the ECT is invoked while a remote user is alerted, the originating exchange discards the user-to-user information received in the ANM or in the REL from that remote user.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.13.1 / Q.732.7 Arrange the data in the IUT so that the served user subscribes to ECT and UUS1.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_27_a_call_setup1, A_ACCESS_PTC : U_11_27_a_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_27_a_call_setup2, B_ISUP_PTC : B_11_27_a_call_setup2)			Setup 2nd call (U → B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_27_a_facility, A_ISUP_PTC : A_11_27_a_facility, B_ISUP_PTC : B_11_27_a_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_27_a_call_release, B_ISUP_PTC : B_11_27_a_call_release, A_ACCESS_PTC : U_11_27_a_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_27_a_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_27_a_call_setup1			
13		+ A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_27_a_call_setup2			
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_o_s_with_uui (TCV_flag_dss1_2, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2)) B_11_27_a_call_setup2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB_UserToUserInf (TCV_B_cic), ACM_s_BU_UserToUserInf (TCV_B_cic)) U_11_27_a_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
17		+A_access_RECEIVE (connect_o_r (TSV_CREF2)) A_11_27_a_facility			
18		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
19		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
20		B_11_27_a_facility +B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
21		+B_SEND (ANM_s_BU_UserToUserInf (TCV_B_cic)) A_11_27_a_call_release			
22		+ A_SEND_CALL_REL B_11_27_a_call_release			
23		+ B_RECEIVE_CALL_REL U_11_27_a_call_release			
24		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS1.</p> <p>Case a)</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call ----IAM (UUInf)----> <---ACM (UUInf)---- <-----FAC----- -----CPG-----> call transfer, alerting call transfer, active <-----FAC----- <---ANM (UUInf)---- call transfer, active : </pre> <ol style="list-style-type: none"> 1. Assist call setup for the 1st call and then initiate the 2nd call (with UUInf) at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active. 5. The 2nd call is answered with UUInf in the ANM, which is to be discarded. 6. Get the verdict from the access side, pass if UUInf discarded. <p>Implementation:</p> <pre> SPA IUT SPB access -----IAM-----> -----setup-----> </pre>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

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<-----ACM----- <-----call.proc-----
                        <-----alert-----
<-----ANM----- <-----connect-----
                        -----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
                        -----hold_ack----->

                        <-----setup-----
                        ----IAM (UUInf)---->
                        -----call.proc----->
<----ACM (UUInf)-----
                        -----alert----->
<-----facility-----

<-----FAC----- <-----CPG----->
> call transfer, alerting < > call transfer, active <
<-----FAC----- <----ANM (UUInf)-----
                        -----connect ----->

call transfer, active
-----REL-----> -----disconnect----->
<-----RLC-----

                        -----REL----->
                        -----disconnect----->
                        <-----RLC-----

```


Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_27_b_ECT_Interaction_with_UUS1 Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : ECT – Interaction with UUS1 <p>To verify that if the ECT is invoked while a remote user is alerted, the originating exchange discards the user-to-user information received in the ANM or in the REL from that remote user.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.13.1/Q.732.7 Arrange the data in the IUT so that the served user subscribes to ECT and UUS1.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_27_b_call_setup1, A_ACCESS_PTC : U_11_27_b_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_27_b_call_setup2, B_ISUP_PTC : B_11_27_b_call_setup2)			Setup 2nd call (U → B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_27_b_facility, A_ISUP_PTC : A_11_27_b_facility, B_ISUP_PTC : B_11_27_b_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		+check_idle			
9		+postamble			
10		A_11_27_b_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic))			
11		U_11_27_b_call_setup1 + A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1))			
12		U_11_27_b_call_setup2 + A_access_CALL_SETUP_TILL_ALERT_UB (setup_o_s_with_uui (TCV_flag_dss1_2, TSV_CREF2, TSV_BCHNUM2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			
13		B_11_27_b_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB_UserToUserInf (TCV_B_cic), ACM_s_BU_UserToUserInf (TCV_B_cic))			
		U_11_27_b_facility			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
15		+ A_access_RECEIVE (connect_o_r (TSV_CREF2))			
16		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
		A_11_27_b_facility			
17		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
18		+ A_RECEIVE (REL_o (TCV_A_cic))			
19		+ A_SEND (RLC_m (TCV_A_cic))			
		B_11_27_b_facility			
20		+ B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
21		+ B_SEND (REL_s_BU_UserToUserInf (TCV_B_cic))			
22		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS1.</p> <p>Case b)</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM (UUInf)-----> <-----ACM (UUInf)----- <-----FAC----- -----CPG-----> call transfer, alerting call transfer, active <-----REL----- <-----REL (UUInf)----- -----RLC-----> -----RLC-----> </pre> <p>1. Assist call setup for the 1st call and then initiate the 2nd call (with UUInf) at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB). 4. CPG (progress) with GenNot: call transfer, active. 5. The 2nd call is released with UUInf in the REL, which is to be discarded. 6. Get the verdict from the access side, pass if UUInf discarded.</p> <p>Implementation:</p> <pre> SPA IUT SPB access -----IAM-----> -----setup-----> <-----ACM----- <-----call.proc----- <-----alert----- <-----ANM----- <-----connect----- -----conn_ack-----> <-----CPG---hold 1st call<-----hold----- -----hold_ack-----> <-----setup----- -----IAM (UUInf)-----> -----call.proc-----> <-----ACM (UUInf)----- -----alert-----> </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	<-----facility----->
<-----FAC----->	-----CPG----->
> call transfer, alerting <	> call transfer, active <
	-----connect----->
	<----REL (UUInf)-----
	-----disconnect----->
	-----RLC----->
<-----REL----->	-----disconnect----->
-----RLC----->	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_28_ECT_Interaction_with_UUS2 Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : ECT – Interaction with UUS2 <p>To verify that if the ECT is invoked while a remote user is alerted, the exchange discards the USR messages received after the call transfer invocation until the ANM from that remote user is received.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.13.2/Q.732.7 Arrange the data in the IUT so that the served user subscribes to ECT and UUS2.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_28_call_setup1, A_ACCESS_PTC : U_11_28_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_28_call_setup2, B_ISUP_PTC : B_11_28_call_setup2)			Setup 2nd call (U → B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_28_facility, A_ISUP_PTC : A_11_28_facility, B_ISUP_PTC : B_11_28_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_28_call_release, B_ISUP_PTC : B_11_28_call_release, A_ACCESS_PTC : U_11_28_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_28_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_28_call_setup1			
13		+ A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_28_call_setup2			
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			
15		+ A_access_RECEIVE (user_info_o_r (TCV_flag_dss1_2, TSV_CREF2))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		B_11_28_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB_UUI_explicit_non_essential_request_service2 (TCV_B_cic), ACM_s_BU_UUI_explicit_response_service2_provided (TCV_B_cic))			
17		+ B_SEND (USR_m (TCV_B_cic))			
		U_11_28_facility			
18		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
19		+ A_access_RECEIVE (user_info_o_r_104 (TCV_flag_dss1_2, TSV_CREF2))			
20		+ A_access_RECEIVE (connect_o_r (TSV_CREF2))			
		A_11_28_facility			
21		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
22		+ A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
		B_11_28_facility			
23		+B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
24		+B_SEND (USR_m (TCV_B_cic))			
25		+B_SEND (ANM_o (TCV_B_cic))			
		A_11_28_call_release			
26		+ A_SEND_CALL_REL			
		B_11_28_call_release			
27		+ B_RECEIVE_CALL_REL			
		U_11_28_call_release			
28		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS2.</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- <-----USR----- <-----FAC----- -----CPG-----> call transfer, alerting call transfer, active <-----USR----- <-----FAC----- <-----ANM----- call transfer, active : </pre> <p>1. Assist call setup for the 1st call and then initiate the 2nd call (with UUIInf) at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC).</p>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

3. Assist 2nd call set up on the right side (SPB) and check the UUS2 request.
4. Accept the requested UUS2 service.
5. Send the 1st USR message. The UUInf should be received on the access side.
6. CPG (progress) with GenNot: call transfer, active.
7. Send the 2nd USR message. The UUInf should not be received on the access side.
8. Get the verdict from the access side, pass if UUInf discarded.

Implementation:

```

SPA                IUT                SPB                access
-----IAM-----> -----setup----->
<-----ACM-----< -----call.proc-----
                    <-----alert-----
<-----ANM-----< -----connect-----
                    -----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
                    -----hold_ack----->

                    <-----setup-----
                    -----IAM----->
                    -----call.proc----->
                    <-----ACM-----
                    -----alert----->
                    <-----USR-----
                    -----user_info----->
                    <-----facility-----
<-----FAC-----< -----CPG----->
> call transfer, alerting < > call transfer, active <
                    <-----USR-----
                    -----user_info----->
<-----FAC-----< -----ANM-----
                    -----connect----->
call transfer, active
-----REL-----> -----disconnect----->
<-----RLC-----
                    -----REL----->
                    -----disconnect----->
                    <-----RLC-----

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_29_ECT_Interaction_with_UUS3 Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : ECT – Interaction with UUS3 <p>To verify that the exchange discards the USR messages if received after the call transfer invocation until the call transfer is completed, i.e. either FAC is sent to the remote users when both calls are already answered or ANM is received from a remote user when one of the calls is alerting.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 7.6.13.3/Q.732.7 Arrange the data in the IUT so that the served user subscribes to ECT and UUS3.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_29_call_setup1, A_ACCESS_PTC : U_11_29_call_setup1)			Setup 1st call (A -> U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_29_call_setup2, B_ISUP_PTC : B_11_29_call_setup2)			Setup 2nd call (U -> B) till alert
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_29_facility, A_ISUP_PTC : A_11_29_facility, B_ISUP_PTC : B_11_29_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			DSS1 user is disconnected by local exchange (IUT)
8		CREATE (A_ISUP_PTC : A_11_29_call_release, B_ISUP_PTC : B_11_29_call_release, A_ACCESS_PTC : U_11_29_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_29_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number_UUI_explicit_non_essential_request_service3 (TCV_A_cic), ACM_r_UA_UUI_explicit_response_service2_provided (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_29_call_setup1			
13		+ A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_29_call_setup2			
14		+ A_access_CALL_SETUP_TILL_ALERT_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		B_11_29_call_setup2 + B_CALL_SETUP_TILL_ACM_UB (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic)) U_11_29_facility			
16		+ A_access_RECEIVE (user_info_o_r (TCV_flag_dss1_2, TSV_CREF2))			
17		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id)))			
18		+ A_access_RECEIVE (user_info_o_r (TCV_flag_dss1_2, TSV_CREF2)) A_11_29_facility			
19		+ A_SEND (USR_m (TCV_A_cic))			
20		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_alerting (TCV_A_cic))			
21		+ A_SEND (USR_m (TCV_A_cic))			
22		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic)) B_11_29_facility			
23		+B_RECEIVE (CPG_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
24		+B_SEND (ANM_o (TCV_B_cic)) A_11_29_call_release			
25		+ A_SEND_CALL_REL			
26		B_11_29_call_release + B_RECEIVE_CALL_REL			
27		U_11_29_call_release + A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS3.</p> <pre> SPC SPA SPB 1st call 2nd call -----IAM-----> <-----ACM----- <-----ANM----- <-----CPG----- hold 1st call -----IAM-----> <-----ACM----- -----USR-----> <-----FAC----- -----CPG-----> call transfer, alerting call transfer, active -----USR-----> <-----FAC----- <-----ANM----- call transfer, active : </pre> <p>1. Assist call setup for the 1st call and then initiate the 2nd call (with UUInf) at the UNI A (IUT). 2. Initiate the 1st call set up on the left side (SPC). 3. Assist 2nd call set up on the right side (SPB).</p>					

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Test Case Dynamic Behaviour

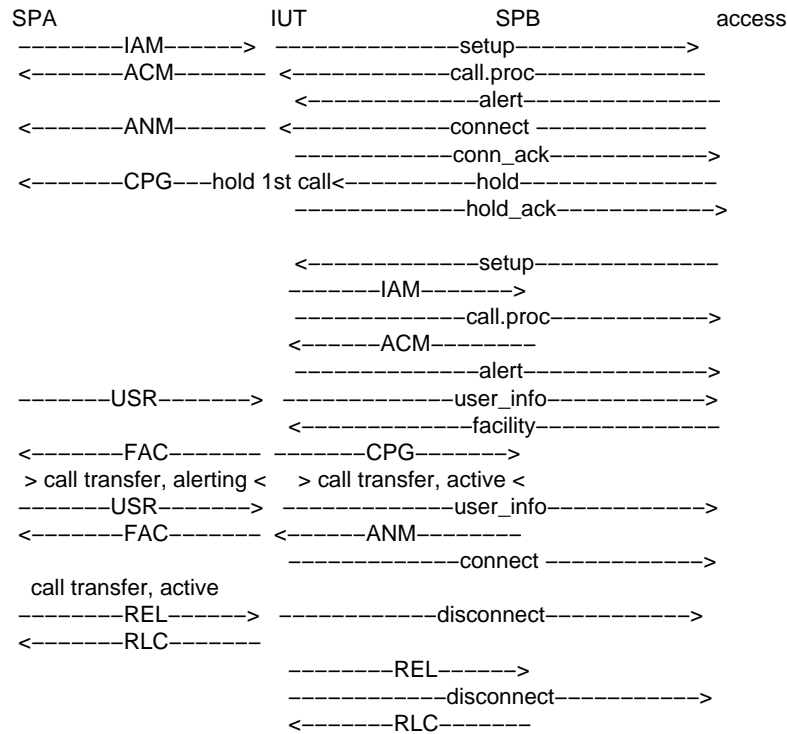
Detailed Comments : ...

4. CPG (progress) with GenNot: call transfer, active.

5. Get the verdict from the access side, pass if UUInf discarded.

Note: The first part of the purpose has not been implemented because the time window between call transfer invocation and completion when both calls are answered is too small to permit sending of USR exactly within this interval.

Implementation:



Test Case Dynamic Behaviour					
Test Case Name : ISS_V_11_30_ECT_Interaction_with_SUB Group : ISUP_Supplementary_Services/ISS_11_ECT/ Purpose : ECT – Interaction with SUB <p>To verify that if the IUT is able to receive and re–send the sub–address in the access transport parameter in the FAC message in either direction after activating the call transfer service. These are the calling sub–address for incoming calls and the connected sub–address for outgoing calls.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference Figure 7–7/Q.732.7 Arrange the data in the IUT so that the served user subscribes to ECT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC : A_11_30_call_setup1, A_ACCESS_PTC : U_11_30_call_setup1)			Setup 1st call (A → U) & hold
3		? DONE (A_ISUP_PTC, A_ACCESS_PTC)			
4		CREATE (A_ACCESS_PTC : U_11_30_call_setup2, B_ISUP_PTC : B_11_30_call_setup2)			Setup 2nd call (U → B)
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC : U_11_30_facility, A_ISUP_PTC : A_11_30_facility, B_ISUP_PTC : B_11_30_facility)			Activate ECT
7		? DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_11_30_call_release, B_ISUP_PTC : B_11_30_call_release, A_ACCESS_PTC : U_11_30_call_release)			Disconnect
9		? DONE (A_ISUP_PTC, B_ISUP_PTC, A_ACCESS_PTC)			
10		+check_idle			
11		+postamble			
12		A_11_30_call_setup1 + A_CALL_SETUP_AND_HOLD_AU (IAM_s_AU_Called_party_number_and_ATP (TCV_A_cic), ACM_o (TCV_A_cic), ANM_o (TCV_A_cic), CPG_r_UA_Generic_notification_ind_hold (TCV_A_cic)) U_11_30_call_setup1			
13		+ A_access_CALL_SETUP_AND_HOLD_AU (setup_o_r (TSV_CREF1), alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1), hold_o_s (TCV_flag_dss1, TSV_CREF1), hold_ack_o_r (TSV_CREF1)) U_11_30_call_setup2			
14		+ A_access_CALL_SETUP_UB (setup_no_calling_party_number (TCV_flag_dss1_2, TSV_CREF2), call_proceeding_o_r (TSV_CREF2), alert_o_r (TSV_CREF2), connect_o_r (TSV_CREF2)) B_11_30_call_setup2			

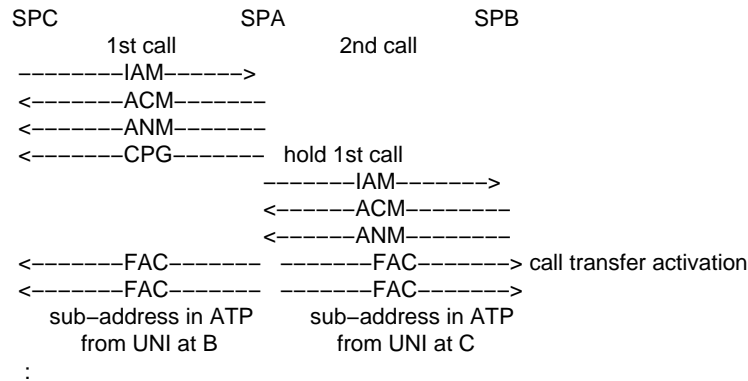
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
15		+ B_CALL_SETUP (IAM_r_UB (TCV_B_cic), ACM_o (TCV_B_cic), ANM_s_BU_National_connected_number_and_ATP (TCV_B_cic)) U_11_30_facility			
16		+A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_ectExecute_inv (TCV_inv_id))) A_11_30_facility			
17		+A_RECEIVE (FAC_r_UA_Generic_notification_ind_ct_active (TCV_A_cic))			
18		+A_RECEIVE (FAC_r_UA_ATP (TCV_B_cic)) B_11_30_facility			
19		+B_RECEIVE (FAC_r_UB_Generic_notification_ind_ct_active (TCV_B_cic))			
20		+B_RECEIVE (FAC_r_UB_ATP (TCV_B_cic)) A_11_30_call_release			
21		+ A_SEND_CALL_REL B_11_30_call_release			
22		+ B_RECEIVE_CALL_REL U_11_30_call_release			
23		+ A_access_RECEIVE_CALL_REL_ON_BOTH_DCH			

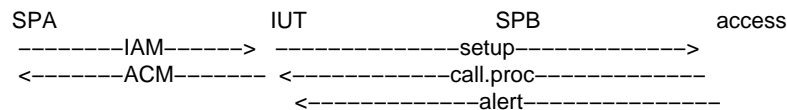
Detailed Comments : Pre-test conditions

Arrange the data in the IUT so that the served user subscribes to ECT.



1. Assist call setup for the 1st call and then initiate the 2nd call at the UNI A (IUT).
2. Initiate the 1st call from SPC to the IUT (SPA) using the number TSP_Nb_A on the 1st B-channel.
3. Assist the 2nd call set up from UNI A to the IUT on the 2nd B-channel.
4. Answer the call by specifying a connected number and a connected sub-address.
5. FAC with GenNot: call transfer, active, ServAct: call transfer.
6. Receive sub-address from UNI at SPC.

Implementation:



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Test Case Dynamic Behaviour

Detailed Comments : ...

```

<-----ANM-----<-----connect-----
-----conn_ack----->
<-----CPG---hold 1st call<-----hold-----
-----hold_ack----->

<-----setup-----
-----IAM----->
-----call.proc----->
<-----ACM-----
-----alert----->
<-----ANM-----
-----connect----->
<-----facility-----
<-----FAC-----> call transfer activation
<-----FAC----->
sub-address in ATP      sub-address in ATP
from UNI at B          from UNI at C
-----REL-----> -----disconnect----->
<-----RLC-----
-----REL----->
-----disconnect----->
<-----RLC-----

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_1_a_Call_is_diverting_indication_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call is diverting" indication received in ACM To verify that a call can be successfully established, if diversion occurs. The ACM contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number. Applicable redirection reason in the call diversion information : "busy" CFB(n); CFB(u,l) "unconditional" CFU "deflection immediate response" CD(i,l) Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_1_a_call_setup, B_ISUP_PTC:B_12_1_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_1_a_call_connect, B_ISUP_PTC:B_12_1_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_1_a_call_release, B_ISUP_PTC:B_12_1_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_1_a_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_1_a_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_1_a_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_1_a_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFB_and_pres_allowed _with_redirection_number(TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			3.
22		B_12_1_a_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_1_a_call_release +B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions</p> <p>Case a)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting ----> <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) : </pre> <p>Implementation</p> <pre> access IUT SPB -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting ----> <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect----> -----REL-----> <-----RLC----- </pre> <hr/> <p>1. The stimulus access will initiate a call set up . 2. Redirection reason is busy. 3. CPG (alerting) coded as if it has been mapped from ACM including BCI.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_1_b_Call_is_diverting_indication_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call is diverting" indication received in ACM <p>To verify that a call can be successfully established, if diversion occurs. The ACM contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number. Applicable redirection reason in the call diversion information : "busy" CFB(n); CFB(u,l) "unconditional" CFU "deflection immediate response" CD(i,l)</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_1_b_call_setup, B_ISUP_PTC:B_12_1_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_1_b_call_connect, B_ISUP_PTC:B_12_1_b_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_1_b_call_release, B_ISUP_PTC:B_12_1_b_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_1_b_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_1_b_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_1_b_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_1_b_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B"))			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_with_redirection_number(TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			3.
22		B_12_1_b_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_1_b_call_release +B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Case b)

```

access          SPA                      SPB
-----setup----->  -----IAM-----> ( -----IAM-----> )
                  <-----ACM-----
<----alerting ----<-----CPG----- ( <-----ACM----- )
... ringing tone ...
<-----answer----- <-----ANM----- ( <-----ANM----- )
:

Implementation
access          IUT                      SPB
-----setup----->  -----IAM-----> ( -----IAM-----> )
                  <-----ACM-----
<----alerting ----<-----CPG----- ( <-----ACM----- )
... ringing tone ...
<-----answer----- <-----ANM----- ( <-----ANM----- )
-----disconnect----->  -----REL----->
                  <-----RLC-----

```

- The stimulus access will initiate a call set up.
- Redirection reason is unconditional .
- CPG (alerting) coded as if it has been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_1_c_Call_is_diverting_indication_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call is diverting" indication received in ACM To verify that a call can be successfully established, if diversion occurs. The ACM contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number. Applicable redirection reason in the call diversion information : "busy" CFB(n); CFB(u,l) "unconditional" CFU "deflection immediate response" CD(i,l)					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_1_c_call_setup, B_ISUP_PTC:B_12_1_c_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_1_c_call_connect, B_ISUP_PTC:B_12_1_c_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_1_c_call_release, B_ISUP_PTC:B_12_1_c_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_1_c_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_1_c_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_1_c_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_1_c_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB (*'B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CD_imm_resp_and_restriction_allowed_with_redirection_number(TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			3.
22		B_12_1_c_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_1_c_call_release +B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions</p> <p>Case c)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting ----> <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) : </pre> <p>Implementation</p> <pre> access IUT SPB -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting ----> <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect----> -----REL-----> <-----RLC----- </pre> <hr/> <p>1. The stimulus access will initiate a call set up. 2. Redirection reason is deflection immediate response . 3. CPG (alerting) coded as if it has been mapped from ACM.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_2_a_Call_diversion_may_occur_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call diversion may occur" received in ACM To verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs. Applicable redirection reason in the call diversion information : "busy" CFB(u,e) "no reply" CFNR "deflection during alerting " CD(a) "deflection immediate response" CD(i,e) Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_2_a_call_setup, B_ISUP_PTC:B_12_2_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_2_a_call_connect, B_ISUP_PTC:B_12_2_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_2_a_call_release, B_ISUP_PTC:B_12_2_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_2_a_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_2_a_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_2_a_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_2_a_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			
20		+B_SEND (ACM_s_BA_With_OBCI_CDmo (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_cdiv_info_with_CFB_with_redirection_number(TCV_B_cic))			3.
22		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			4.
23		B_12_2_a_call_connect +B_SEND (ANM_m (TCV_B_cic))			
24		B_12_2_a_call_release +B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Case a)

```

access          SPA          SPB
-----setup-----> -----IAM----->
                  <-----ACM-----
(no indication ) <-----CPG----- ( <-----IAM----- )
<----alerting ----> <-----CPG----- ( <-----ACM----- )
                  ... ringing tone ...
<----answer-----> <-----ANM----- ( <-----ANM----- )
:
```

Implementation

```

access          IUT          SPB
-----setup-----> -----IAM----->
                  <-----ACM-----
(no indication ) <-----CPG----- ( <-----IAM----- )
<----alerting ----> <-----CPG----- ( <-----ACM----- )
                  ... ringing tone ...
<----answer-----> <-----ANM----- ( <-----ANM----- )
-----disconnect--> -----REL----->
                  <-----RLC-----
```

-
1. The stimulus access will initiate a call set up.
 2. Call diversion may occur in Event indicator.
 3. Call forwarded on busy in Event indicator and also Call diversion information.
 4. CPG (alerting) coded as if it has been mapped from ACM, with RnNbRes parameter.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_2_b_Call_diversion_may_occur_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call diversion may occur" received in ACM To verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs. Applicable redirection reason in the call diversion information : "busy" CFB(u,e) "no reply" CFNR "deflection during alerting " CD(a) "deflection immediate response" CD(i,e) Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_2_b_call_setup, B_ISUP_PTC:B_12_2_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_2_b_call_connect, B_ISUP_PTC:B_12_2_b_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_2_b_call_release, B_ISUP_PTC:B_12_2_b_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_2_b_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_2_b_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_2_b_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_2_b_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_CdPSI_subs_free_OBCI_CDmo (TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_With_cdiv_info_with_CFNR (TCV_B_cic))			3.
22		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			4.
		B_12_2_b_call_connect			
23		+B_SEND (ANM_m (TCV_B_cic))			
		B_12_2_b_call_release			
24		+B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions</p> <p>Case b)</p> <p>access SPA SPB</p> <pre> -----setup-----> -----IAM-----> <-----ACM----- (progress) <-----CPG----- (<-----IAM-----) <-----alerting ----- <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) : </pre> <p>Implementation</p> <p>access IUT SPB</p> <pre> -----setup-----> -----IAM-----> <-----ACM----- (progress) <-----CPG----- (<-----IAM-----) <-----alerting ----- <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect-----> -----REL-----> <-----RLC----- </pre> <hr/> <ol style="list-style-type: none"> 1. The stimulus access will initiate a call set up . 2. Subscriber free in CdPSI & Call diversion may occur in OBCI. 3. CPG (Progress) in Event indicator and also Call diversion information (CFNR), Generic notification, and redirection Number. 4. CPG (alerting) coded as if it has been mapped from ACM, with RnNbRes parameter, and including BCI. 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_2_c_Call_diversion_may_occur_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call diversion may occur" received in ACM To verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs. Applicable redirection reason in the call diversion information : "busy" CFB(u,e) "no reply" CFNR "deflection during alerting " CD(a) "deflection immediate response" CD(i,e) Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_2_c_call_setup, B_ISUP_PTC:B_12_2_c_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_2_c_call_connect, B_ISUP_PTC:B_12_2_c_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_2_c_call_release, B_ISUP_PTC:B_12_2_c_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_2_c_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_2_c_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_2_c_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_2_c_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_CdPSI_subs_free_OBCI_CDmo (TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_With_cdiv_info_with_CD_during_alert(TCV_B_cic))			3.
22		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			4.
23		B_12_2_c_call_connect +B_SEND (ANM_m (TCV_B_cic))			
24		B_12_2_c_call_release +B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Case c)

```

access          SPA          SPB
-----setup-----> -----IAM----->
                  <-----ACM-----
      (no indication ) <-----CPG----- ( -----IAM-----> )
<-----alerting ----- <-----CPG----- ( <-----ACM----- )
      ... ringing tone ...
<-----answer----- <-----ANM----- ( <-----ANM----- )
:

```

Implementation

```

access          IUT          SPB
-----setup-----> -----IAM----->
                  <-----ACM-----
      (no indication ) <-----CPG----- ( -----IAM-----> )
<-----alerting ----- <-----CPG----- ( <-----ACM----- )
      ... ringing tone ...
<-----answer----- <-----ANM----- ( <-----ANM----- )
-----disconnect-----> -----REL----->
                        <-----RLC-----

```

-
1. The stimulus access will initiate a call set up .
 2. Subscriber free in CdPSI & Call diversion may occur in Event indicator.
 3. CPG(Progress) in Event indicator and also Call diversion information, generic notification, and redirection number.
 4. CPG(alerting) coded as if it has been mapped from ACM, with RnNbRes parameter, and including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_2_d_Call_diversion_may_occur_received_in_ACM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : "Call diversion may occur" received in ACM To verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs. Applicable redirection reason in the call diversion information : "busy" CFB(u,e) "no reply" CFNR "deflection during alerting" CD(a) "deflection immediate response" CD(i,e) Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_2_d_call_setup, B_ISUP_PTC:B_12_2_d_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_2_d_call_connect, B_ISUP_PTC:B_12_2_d_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_2_d_call_release, B_ISUP_PTC:B_12_2_d_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_2_d_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			1.
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			
		A_12_2_d_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_2_d_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_2_d_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_CdPSI_subs_free_OBCI_CDmo (TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_With_cdiv_info_with_CD_imm_resp(TCV_B_cic))			3.
22		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			4.
		B_12_2_d_call_connect			
23		+B_SEND (ANM_m (TCV_B_cic))			
		B_12_2_d_call_release			
24		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Case d)

```

access          SPA                      SPB
-----setup-----> -----IAM----->
                  <-----ACM-----
                  (no indication ) <-----CPG----- ( -----IAM-----> )
<----alerting ----> <-----CPG----- ( <-----ACM----- )
                  ... ringing tone ...
<----answer-----> <-----ANM----- ( <-----ANM----- )
:
```

Implementation

```

access          IUT                      SPB
-----setup-----> -----IAM----->
                  <-----ACM-----
                  (no indication ) <-----CPG----- ( -----IAM-----> )
<----alerting ----> <-----CPG----- ( <-----ACM----- )
                  ... ringing tone ...
<----answer-----> <-----ANM----- ( <-----ANM----- )
-----disconnect--> -----REL----->
                  <-----RLC-----
```

-
1. The stimulus access will initiate a call set up.
 2. Subscriber free in CdPSI & Call diversion may occur in Event indicator.
 3. Deflection immediate response in Event indicator and also Call diversion information.
 4. CPG (alerting) coded as if it has been mapped from ACM, with RnNbRes parameter.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_3_Redirection_number_presentation_allowed__according_to_the_notification_subscripti on_option Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Redirection number – presentation allowed – according to the notification subscription option <p>To verify that the originating exchange makes the redirection number available to the calling access signalling system, if the notification subscription option of the call diversion information is coded "010 presentation allowed with redirection number".</p> <p>The redirection number restriction parameter is set to "00 presentation allowed".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference2.4.2 ;Table 2-1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_3_call_setup, B_ISUP_PTC:B_12_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_3_call_connect, B_ISUP_PTC:B_12_3_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_3_call_release, B_ISUP_PTC:B_12_3_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_3_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_redirection_number_gen_notification_ind (TSV_CREF1))			1.Reception of redirection number
		A_12_3_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_3_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_3_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB (**B))			
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_ with_redirection_number (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			3.
		B_12_3_call_connect			
22		+B_SEND (ANM_m (TCV_B_cic))			
		B_12_3_call_release			
23		+B_RECEIVE_CALL_REL			
Detailed Comments :					
Pre-test conditions					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_4_a_Redirection_number_presentation_restricted_according_to_the_notification_subscription_option Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Redirection number – presentation restricted – according to the notification subscription option To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if the notification subscription option of the call diversion information is coded "001 presentation not allowed", "011 presentation allowed without redirection number" or "000 unknown". The redirection number restriction parameter is set to "00 presentation allowed". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2 ; Table 2-1 / Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_4_a_call_setup, B_ISUP_PTC:B_12_4_a_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_4_a_call_connect, B_ISUP_PTC:B_12_4_a_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_4_a_call_release, B_ISUP_PTC:B_12_4_a_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_4_a_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification_ind (TSV_CREF1))			1.Redirection number is not received
		A_12_4_a_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_4_a_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_4_a_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("B"))			
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_pres_not_allowed_with_redirection_number (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_alerting_pres_not_allowed_and_redirect ion_num_allowed (TCV_B_cic))			3.
22		B_12_4_a_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_4_a_call_release +B_RECEIVE_CALL_REL			
<p>Detailed Comments :</p> <p>Pre-test conditions</p> <p>Case a)</p> <pre> access SPA SPB -----setup----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) :</pre> <p>Implementation</p> <pre> access IUT SPB -----setup----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect----> -----REL-----> <-----RLC-----</pre> <hr/> <p>1. The stimulus access will initiate a call set up. The verdict will be set to pass if no Redirection number is presented on the access.</p> <p>2. NSO is presentation not allowed with redirection number (implicit) and RnReas = CFU. NOTE : CFU is used as redirection reason, but other reasons are also applicable.</p> <p>3. Redirection number restriction parameter presentation allowed (implicit/default).</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_4_b_Redirection_number_presentation_restricted_according_to_the_notification_subscription_option Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Redirection number – presentation restricted – according to the notification subscription option To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if the notification subscription option of the call diversion information is coded "001 presentation not allowed", "011 presentation allowed without redirection number" or "000 unknown". The redirection number restriction parameter is set to "00 presentation allowed". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2 ; Table 2-1 / Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_4_b_call_setup, B_ISUP_PTC:B_12_4_b_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_4_b_call_connect, B_ISUP_PTC:B_12_4_b_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_4_b_call_release, B_ISUP_PTC:B_12_4_b_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_4_b_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification_ind (TSV_CREF1))			1.Redirection number is not received
		A_12_4_b_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_4_b_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_4_b_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("B"))			
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_without_RNb_with_redirection_number (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_alerting_pres_allowed_without_RNb_and_redirection_num_allowed (TCV_B_cic))			3.
22		B_12_4_b_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_4_b_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : <div> <div>Pre-test conditions</div> <div> <div>Case b)</div> <div> <div>access</div> <div> <div>SPA</div> <div>SPB</div> </div> </div> </div> <pre> -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting ----- <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) : </pre> <div> <div>Implementation</div> <div> <div>access</div> <div> <div>IUT</div> <div>SPB</div> </div> </div> </div> <pre> -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting ----- <-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect----> -----REL-----> <-----RLC----- </pre> <div> <div>1. The stimulus access will initiate a call set up. The verdict will be set to pass if no Redirection number is presented on the access.</div> <div>2. NSO is presentation allowed without redirection number and RnReas = CFU. NOTE : CFU is used as redirection reason, but other reasons are also applicable.</div> <div>3. Redirection number restriction parameter presentation allowed (implicit).</div> </div> </div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_4_c_Redirection_number_presentation_restricted_according_to_the_notification_subscription_option Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Redirection number – presentation restricted – according to the notification subscription option To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if the notification subscription option of the call diversion information is coded "001 presentation not allowed", "011 presentation allowed without redirection number" or "000 unknown". The redirection number restriction parameter is set to "00 presentation allowed". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2 ; Table 2-1 / Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_4_c_call_setup, B_ISUP_PTC:B_12_4_c_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_4_c_call_connect, B_ISUP_PTC:B_12_4_c_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_4_c_call_release, B_ISUP_PTC:B_12_4_c_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_4_c_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification_ind (TSV_CREF1))			1.Redirection number is not received
		A_12_4_c_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_4_c_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_4_c_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("B"))			
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_unknown_with_redirection_number (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		+B_SEND (CPG_s_BA_With_alerting_and_unknown_and_redirection_num_allowed (TCV_B_cic))			3.
22		B_12_4_c_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_4_c_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : <p>Pre-test conditions</p> <p>Case c)</p> <pre> access SPA SPB -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting -----<-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) : </pre> <p>Implementation</p> <pre> access IUT SPB -----setup-----> -----IAM-----> (-----IAM----->) <-----ACM----- <----alerting -----<-----CPG----- (<-----ACM-----) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect-----> -----REL-----> <-----RLC----- </pre> <ol style="list-style-type: none"> 1. The stimulus access will initiate a call set up. The verdict will be set to pass if no Redirection number is presented on the access. 2. NSO is unknown and RnReas = CFU. NOTE : CFU is used as redirection reason, but other reasons are also applicable. 3. Redirection number restriction parameter presentation allowed (implicit/default). 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_5_Redirection_number_presentation_restricted_according_to_redirection_number_restriction_parameter Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Redirection number – presentation restricted – according to redirection number restriction parameter To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if the redirection number restriction parameter indicates "01 Presentation restricted". The notification subscription option of the call diversion information is coded "010 Presentation allowed with redirection number". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2; Table 2-1 / Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_5_call_setup, B_ISUP_PTC:B_12_5_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_5_call_connect, B_ISUP_PTC:B_12_5_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_5_call_release, B_ISUP_PTC:B_12_5_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_5_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification _ind (TSV_CREF1))			1.Redirection number is not received
		A_12_5_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_5_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_5_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_ with_redirection_number (TCV_B_cic)			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			3.
22		B_12_5_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_5_call_release +B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

access SPA SPB

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-----setup-----> -----IAM-----> ( -----IAM-----> )
                        <-----ACM-----
<----alerting ----- <-----CPG----- ( <-----ACM----- )
                        ... ringing tone ...
<-----answer----- <-----ANM----- ( <-----ANM----- )
:

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Implementation

access IUT SPB

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-----setup-----> -----IAM-----> ( -----IAM-----> )
                        <-----ACM-----
<----alerting ----- <-----CPG----- ( <-----ACM----- )
                        ... ringing tone ...
<-----answer----- <-----ANM----- ( <-----ANM----- )
-----disconnect----> -----REL----->
                        <-----RLC-----

```

1. The stimulus access will initiate a call set up. The verdict will be set to pass if no Redirection number is presented on the access.
2. NSO is presentation allowed with redirection number (implicit) and RnReas = CFU.
NOTE : CFU is used as redirection reason, but other reasons are also applicable.
3. The Redirection number restriction parameter is set to presentation restricted.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_12_6_Redirection_number_presentation_restricted_no_redirection_number_restriction_parameter_received Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Redirection number – presentation restricted – no redirection number restriction parameter received To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if no redirection number restriction parameter is received. The notification subscription option of the call diversion information is coded "010 Presentation allowed with redirection number". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2 ; Table 2-1 / Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_6_call_setup, B_ISUP_PTC:B_12_6_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_6_call_connect, B_ISUP_PTC:B_12_6_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_6_call_release, B_ISUP_PTC:B_12_6_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_6_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification_ind (TSV_CREF1))			1.Redirection number is not received
		A_12_6_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_6_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_6_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB (**B))			
20		+B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_pres_allowed_with_redirection_number (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_alerting_and_No_redirection_num_rest (TCV_B_cic))			3.
22		B_12_6_call_connect +B_SEND (ANM_m (TCV_B_cic))			
23		B_12_6_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					
<div>accessSPA -----setup-----> -----IAM-----> (-----IAM----->) </div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_12_7_Multiple_diversions_redirection_number_not_send_by_the_last_diversion Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Multiple diversions – redirection number not send by the last diversion To verify that the originating exchange does not make any redirection number available to the calling access signalling system, if the last diverting exchange does not send one. Note: The first diverting exchange sends the redirection number and allows for its presentation. The second (last) diversion allows for the presentation of the redirection number, but does not send it, i.e. only call diversion information is present in the message and the redirection number is missing. The redirection number restriction parameter is also received as "presentation allowed". Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_7_call_setup, B_ISUP_PTC:B_12_7_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_7_call_connect, B_ISUP_PTC:B_12_7_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_7_call_release, B_ISUP_PTC:B_12_7_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_7_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification _ind (TSV_CREF1))			1.Redirection number is not received
		A_12_7_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_7_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_7_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			
20		+B_SEND (ACM_s_BA_With_no_ind_cdiv_info_with_CFU_and_pres_ allowed_with_redirection_number (TCV_B_cic))			2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_With_progress_and_no_RNb2 (TCV_B_cic))			3.
22		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			
23		B_12_7_call_connect +B_SEND (ANM_m (TCV_B_cic))			
24		B_12_7_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_12_8_Multiple_diversions_redirection_number_presentation_according_to_the_most_restrictive_notification_subscription_option Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Multiple diversions – redirection number – presentation according to the most restrictive notification subscription option To verify that the originating exchange handles the presentation of the redirection number according to the contents of the most restrictive notification subscription option of the call diversion information, if the forwarded-to user allows presentation of the number ("presentation allowed" in the redirection number restriction parameter). Note: Several messages each containing the call diversion information are received, as if multiple forwardings have occurred (from option B – immediate release – diverting exchanges, so no collecting of information takes place). Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.4.2 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_8_call_setup, B_ISUP_PTC:B_12_8_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_8_call_connect, B_ISUP_PTC:B_12_8_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_8_call_release, B_ISUP_PTC:B_12_8_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_8_call_setup			
12		+DSS1_Preamble			
13		+A_access_SEND (setup_o_s (0,TSV_CREF1, TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_A), TSO_HEX_TO_OCTET(TSP_NB_A)))			
14		+A_access_RECEIVE_dss1 (call_proceeding_o_r(TSV_CREF1))			
15		+A_RECEIVE (alert_o_r_With_no_redirection_number_gen_notification_ind (TSV_CREF1))			1.Redirection number is not received
		A_12_8_call_connect			
16		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_12_8_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_8_call_setup			
19		+B_RECEIVE_cic (IAM_r_AB ("*B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+B_SEND (ACM_s_BA_With_redirection_number_international_own_C C_div_info_and_gen_notification_ind (TCV_B_cic))			2.
21		+B_SEND (CPG_s_BA_noind_pres_not_allowed_RNb2_and_redirection_num_allowed (TCV_B_cic))			3.
22		+B_SEND (CPG_s_BA_noind_pres_allowed_RNb3_and_redirection_num_allowed (TCV_B_cic))			
23		+B_SEND (CPG_s_BA_noind_pres_allowed_without_RNb_RNb4_and_redirection_num_allowed (TCV_B_cic))			
24		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_allowed (TCV_B_cic))			
25		B_12_8_call_connect +B_SEND (ANM_m (TCV_B_cic))			
26		B_12_8_call_release +B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions <pre> access SPA SPB -----setup-----> -----IAM-----> (-----IAM----->) (no indication) <-----ACM----- 1st diversion (no indication) <-----CPG----- (<-----ACM-----) 2nd diversion (no indication) <-----CPG----- (<-----CPG-----) 3rd diversion (no indication) <-----CPG----- (<-----CPG-----) 4th diversion <----alerting---- <-----CPG----- (<-----CPG-----) (alerting) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) : </pre> Implementation <pre> access IUT SPB -----setup-----> -----IAM-----> (-----IAM----->) (no indication) <-----ACM----- 1st diversion (no indication) <-----CPG----- (<-----ACM-----) 2nd diversion (no indication) <-----CPG----- (<-----CPG-----) 3rd diversion (no indication) <-----CPG----- (<-----CPG-----) 4th diversion <----alerting---- <-----CPG----- (<-----CPG-----) (alerting) ... ringing tone ... <-----answer----- <-----ANM----- (<-----ANM-----) -----disconnect----> -----REL-----> <-----RLC----- </pre> 1. The stimulus access will initiate a call set up. The verdict will be set to pass if no Redirection number is presented on the access. 2. NOTE : CFU is used as redirection reason, but other reasons are also applicable. 3. Redirection number restriction parameter presentation allowed (implicit/default).					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_9_a_IUT_passes_diversion_information_in_backward_direction Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully pass on in the backward direction (on the leg before the diversion), all the diversion information parameters received from the diverting exchange. It has to be checked that the following signalling information is passed on : – optional backward call indicators with setting "call diversion may occur" for CFNR, CD(a), CFB(u,e) and CD(i,e) – generic notification indicator – call diversion information – redirection number (Note:altered in gateways) – redirection number restriction parameter Note: The following messages can be tested for CFNR ,CD(a), CFB(u,e) and CD(i,e): –ACM with optional backward call indicators with "Call diversion may occur" – CPG with generic notification indicator, call diversion information and redirection number – CPG alerting (or ANM or CON) with redirection number restriction parameter. The following messages can be tested for CFU, CFB(n), CFB(u,l), CD(i,l): –ACM with generic notification indicator, call diversion information and redirection number – CPG alerting (or ANM or CON) with redirection number restriction parameter. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1;2.5.2.5.1.2 d)/Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_BCI_no_ind_cdiv_info_redirection_number_and_gen_not_ind (TCV_A_cic))			2.
11		+A_RECEIVE (CPG_r_BA_With_alerting_and_redirection_num_rest (TCV_A_cic))			3.
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_s_BA_With_BCI_no_ind_cdiv_info_redirection_number_and_gen_not_ind (TCV_B_cic))			
16		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA (IUT) SPB SP D</p> <pre> -----IAM----->-----IAM-----> -----> <-----ACM----- <-----ACM-----RnReas,number <-----CPG-----<----CPG----- (<-----ACM-----) RnNbRes ringing tone..... <-----ANM----- <-----ANM----- (<-----ANM-----) : Implementation: SPA IUT SPB SP D -----IAM----->-----IAM-----> -----> <-----ACM----- <-----ACM-----RnReas,number <-----CPG-----<----CPG----- (<-----ACM-----) RnNbRes ringing tone..... <-----ANM----- <-----ANM----- (<-----ANM-----) check_communication <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> <hr/> <p>1. The PTC will provide the necessary stimulus, the test is for RnReas=CFU. 2. ACM (no indication)with CDInf, GenNot='Call is Diverting' and RnNb. 3.. CPG (alerting) with RnNbRes coded as if it has been mapped from ACM including BCI.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_9_b_IUT_passes_diversion_information_in_backward_direction Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully pass on in the backward direction (on the leg before the diversion), all the diversion information parameters received from the diverting exchange. It has to be checked that the following signalling information is passed on : – optional backward call indicators with setting "call diversion may occur" for CFNR, CD(a), CFB(u,e) and CD(i,e) – generic notification indicator – call diversion information – redirection number (Note:altered in gateways) – redirection number restriction parameter Note: The following messages can be tested for CFNR ,CD(a), CFB(u,e) and CD(i,e): –ACM with optional backward call indicators with "Call diversion may occur" – CPG with generic notification indicator, call diversion information and redirection number – CPG alerting (or ANM or CON) with redirection number restriction parameter. The following messages can be tested for CFU, CFB(n), CFB(u,l), CD(i,l): –ACM with generic notification indicator, call diversion information and redirection number – CPG alerting (or ANM or CON) with redirection number restriction parameter. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1;2.5.2.5.1.2 d)/Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			2.
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_with_CFNR (TCV_A_cic))			3.
12		+A_RECEIVE (CPG_r_BA_With_alerting_and_redirection_num_rest (TCV_A_cic))			4.
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_s_BA_With_OBCI_CDmo (TCV_B_cic))			
17		+B_SEND (CPG_s_BA_With_cdiv_info_with_CFNR (TCV_B_cic))			
18		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+B_SEND (ANM_m (TCV_B_cic))			
20		B_call_release +B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA (IUT) SPB SP D</p> <pre> -----IAM----->-----IAM-----> <-----ACM-----<-----ACM-----CDmo RnReas,number <-----CPG-----<-----CPG----- (-----IAM----->) <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbRes ringing tone..... <-----ANM-----<-----ANM----- (<-----ANM-----) : Implementation: SPA IUT SPB SP D -----IAM----->-----IAM-----> -----> <-----ACM-----<-----ACM-----RnReas,number <-----CPG-----<-----CPG----- (-----IAM----->) <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbRes ringing tone..... <-----ANM-----<-----ANM----- (<-----ANM-----) check_communication <-----REL-----<-----REL----- -----RLC----->-----RLC-----> </pre> <p>1. The PTC will provide the necessary stimulus, the test is for RnReas=CFNR. 2. ACM with optional backward call indicator "Call diversion may occur". 3. CPG (progress) with CDInf, GenNot = "call is diverting" and the RnNb. 4. CPG (alerting) with RnNbRes coded as if it has been mapped from ACM including BCI.</p>					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_10_IUT_can_pass_on_diversion_information_in_both_direction Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the IUT can successfully pass on in both directions (on the leg after the diversion) all the diversion information from the diverting exchange. It has to be checked that the following signalling information is passed on in the forward direction : – redirecting number (Note : Altered in gateways) – original called number (note : Altered in gateways) – redirection information It has to be checked that the following signalling information is passed in the in the backward direction : – redirection number restriction parameter (in ACM/CPG/ANM/CON) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			1.
10		+A_SEND (IAM_s_AB_After_redirection (TCV_A_cic))			
11		+A_RECEIVE (ACM_r_BA_With_redirection_number_restriction (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		A_call_release			2.
14		+A_RECEIVE_CALL_REL			
15		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB_After_redirection ('*B))			
		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> With RnInf, OriCdNb, RgNb <-----ACM----- <-----ACM----- RnNbRes ringing tone..... <---ANSWER----- <-----ANM----- : Implementation: </pre>					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
SPA	IUT	SPB
-----IAM-----> -----IAM-----> With RnInf, OriCdNb, RgNb		
<-----ACM----- <-----ACM----- RnNbRes		
..... ringing tone.....		
<---ANSWER----- <-----ANM-----		
.... check_communication		
<-----REL----- <-----REL-----		
-----RLC-----> -----RLC----->		
<hr/>		
<hr/>		
1. The stimulus ISUP will initiate a call setup with the expected signalling information.		
2. On the forwarding leg, the RnNbRes from user with the number TSP_Nb_B is returned. The redirection number restriction parameter is set to "Presentation Allowed", by default.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_12_11_a_manipulations_in_original_called_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined in CLIP. Applicable tests: Discarding the original number in case of bilateral agreements (PICS A.15/11) Discarding the original called number if address is marked not available. Converting the original called number to international format with transparent transferral of screening indicator and address presentation restricted indicator. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 ; 3.5.2.3 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_national_original_called_number (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_no_original_called_number (**B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----<-----ACM-----< <-----ANM-----<-----ANM-----<					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

.... check_communication
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->

1. The PTC will send an IAM with an OriCdNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_12_11_b_manipulations_in_original_called_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined in CLIP. Applicable tests: Discarding the original number in case of bilateral agreements (PICS A.15/11) Discarding the original called number if address is marked not available. Converting the original called number to international format with transparent transferral of screening indicator and address presentation restricted indicator. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 ; 3.5.2.3 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_original_called_number_a s_address_not_available (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_original_called_number_p resentation_restricted (*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----<-----ACM----- <-----ANM-----<-----ANM----- check_communication </pre>					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div><-----REL-----<-----REL----- -----RLC----->-----RLC-----></div><div><div></div><div></div></div><div>1. The PTC will send an IAM with an 'address not available' OriCdNb.</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_I_12_11_c_manipulations_in_original_called_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined in CLIP. Applicable tests: Discarding the original number in case of bilateral agreements (PICS A.15/11) Discarding the original called number if address is marked not available. Converting the original called number to international format with transparent transferral of screening indicator and address presentation restricted indicator. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 ; 3.5.2.3 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_national_original_called_number (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_international_original_called_number ("*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----<-----ACM-----< <-----ANM-----<-----ANM-----<					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.... check_communication
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->

1. The PTC will send an IAM with a national (significant) OriCdNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_12_a_manipulations_in_redirecting_number_discar Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined in CLIP. Applicable tests: Discarding the redirecting number in case of bilateral agreements (PICS A.15/12) Discarding the redirecting number if address is marked not available. Converting the redirecting number to international format with transparent transferral of screening indicator and address presentation restricted indicator. Discarding an incomplete redirecting number Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 ; 3.5.2.3 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_national_original_called_number (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m(TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_no_redirecting_number (**B))			
14		+B_SEND (ACM_m(TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----> <-----ACM----->					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	<-----ANM-----<-----ANM-----
 check_communication
	<-----REL-----<-----REL-----
	-----RLC-----> -----RLC----->
<hr/>	
<hr/>	
1. The PTC will send an IAM with an RgNb.	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_12_b_manipulations_in_redirecting_number_address_not_available Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined in CLIP. Applicable tests: Discarding the redirecting number in case of bilateral agreements (PICS A.15/12) Discarding the redirecting number if address is marked not available. Converting the redirecting number to international format with transparent transferral of screening indicator and address presentation restricted indicator. Discarding an incomplete redirecting number Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 ; 3.5.2.3 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_redirecting_number_as_a ddress_not_available (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_no_redirecting_number (*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----< <-----ACM-----<					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	<-----ANM-----<-----ANM-----
 check_communication
	<-----REL-----<-----REL-----
	-----RLC-----> -----RLC----->
	<hr/>
	<hr/>
	1. The PTC will send an IAM with an 'address not available' RgNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_12_c_manipulations_in_redirecting_number_international_format Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined in CLIP. Applicable tests: Discarding the redirecting number in case of bilateral agreements (PICS A.15/12) Discarding the redirecting number if address is marked not available. Converting the redirecting number to international format with transparent transferral of screening indicator and address presentation restricted indicator. Discarding an incomplete redirecting number Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 ; 3.5.2.3 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_national_original_called_number (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_international_redirecting_number ('*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----<-----ACM-----< <-----ANM-----<-----ANM-----<					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

.... check_communication
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->

-
-
1. The PTC will send an IAM with a national (significant) RgNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_13_a_manipulations_in_redirection_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures as defined for COLP. Tests Applicable: Converting the redirection number to national format if necessary (own Country Code) Adding a prefix to an international redirection number (PICS A.15/14-national option @) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 /ETS 300 356-15					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_redirection_number_national_cdiv_info_and_gen_notification_ind (TCV_A_cic))			2.
11		+A_RECEIVE (CPG_r_BA_With_alerting_and_redirection_num_rest (TCV_A_cic))			3.
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_s_BA_With_redirection_number_international_own_CC_cdiv_info_and_gen_notification_ind (TCV_B_cic))			
16		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB SPD -----IAM-----> -----IAM-----> (-----IAM----->) <-----ACM----- <-----ACM----- RnReas,number <-----CPG----- <-----CPG----- (<-----ACM-----) RnNbResringing tone..... <-----ANM----- <-----ANM----- (<-----ANM-----) :					

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Test Case Dynamic Behaviour

Detailed Comments : ...

Implementation:

SPA

IUT

SPB

SPD

-----IAM-----> -----IAM-----> (-----IAM----->)

<-----ACM-----<-----ACM----- RnReas,number

<-----CPG-----<-----CPG----- (<-----ACM-----)

RnNbRes

.....ringing tone.....

<-----ANM-----<-----ANM----- (<-----ANM-----)

.... check_communication

<-----REL-----<-----REL-----

-----RLC-----> -----RLC----->

1. The PTC will provide the necessary stimulus.

2. ACM with CDInf, GenNot ='Call is diverting' and an international RnNb:TSP_Nb_D with own CC.

3. CPG(alerting) with RnNbRes-Coded as if its been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_13_b_manipulations_in_redirection_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures as defined for COLP. Tests Applicable: Converting the redirection number to national format if necessary (own Country Code) Adding a prefix to an international redirection number (PICS A.15/14-national option @) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.3 /Q.732 /ETS 300 356-15					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			1.
10		+A_SEND (IAM_s_AB (TCV_A_cic))			
11		+A_RECEIVE (ACM_r_BA_With_redirection_number_international_with_p refix_cdiv_info_and_gen_notification_ind (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting_and_redirection_num_rest (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release			
15		+A_RECEIVE_CALL_REL			
16		B_call_setup			2.
17		+B_RECEIVE_cic (IAM_r_AB ("B"))			
18		+B_SEND (ACM_s_BA_With_redirection_number_international_foreig n_CC_cdiv_info_and_gen_notification_ind (TCV_B_cic))			3.
19		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			
20		+B_SEND (ANM_m (TCV_B_cic))			
21		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB SPD -----IAM-----> -----IAM-----> (-----IAM----->) <-----ACM-----<-----ACM----- RnReas,number <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbResringing tone..... <-----ANM-----<-----ANM----- (<-----ANM-----) :					

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Test Case Dynamic Behaviour

Detailed Comments : ...

SPC	IUT	SPB	SPD
-----IAM----->	-----IAM----->	(-----IAM----->)	
<-----ACM-----	<-----ACM-----	RnReas,number	
<-----CPG-----	<-----CPG-----	(<-----ACM-----)	
RnNbRes			
ringing tone.....		
<-----ANM-----	<-----ANM-----	(<-----ANM-----)	
<-----REL-----	<-----REL-----		
-----RLC----->	-----RLC----->		

-
1. The PTC will provide the necessary stimulus.
 2. ACM with CDInf, GenNot ='Call is diverting' and an international RnNb:TSP_Nb_D with foreign Country Code.
 3. CPG(alerting) with RnNbRes-Coded as if its been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_14_a_manipulations_in_original_called_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the original called number according to the procedures as defined in CLIP. Applicable tests: Converting the original called number to national format if necessary (own Country Code). Adding a prefix to an international original called number (PICS A.15/15 – national option @) Handling of address presentation restricted indicator set to address not available. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732 ; 3.5.2.4 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_international_original_called_number_own_CC (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_national_original_called_number ("*B))			2.
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB International National -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----< -----ACM-----< <-----ANM-----< -----ANM-----<					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

.... check_communication
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->

-
-
1. The stimulus ISUP will initiate a call setup with the expected signalling information.
 2. The received IAM should contain an OriCdNb coded as national (significant) number.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_14_b_manipulations_in_original_called_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the original called number according to the procedures as defined in CLIP. Applicable tests: Converting the original called number to national format if necessary (own Country Code). Adding a prefix to an international original called number (PICS A.15/15 – national option @) Handling of address presentation restricted indicator set to address not available. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732 ; 3.5.2.4 /Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_After_redirection_with_international_original_called_number_foreign_CC (TCV_A_cic)) +A_RECEIVE (ACM_m (TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))			1.
10		A_call_release +A_RECEIVE_CALL_REL			
11		B_call_setup +B_RECEIVE_cic (IAM_r_AB_After_redirection_with_international_original_called_number_with_prefix ('*B')) +B_SEND (ACM_m (TCV_B_cic)) +B_SEND (ANM_m (TCV_B_cic))			2.
12		B_call_release +B_SEND_CALL_REL			
13					
14					
15					
16					
Detailed Comments : SPC SPA SPB International International with prefix -----IAM-----> -----IAM-----> Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM-----< -----ACM-----< <-----ANM-----< -----ANM-----<					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

.... check_communication
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->

-
-
1. The stimulus ISUP will initiate a call setup with the expected signalling information.
 2. The received IAM should contain an OriCdNb with prefix.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_15_a_manipulations_in_the_redirecting_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP. Applicable tests : Converting the redirecting number to national format, if necessary (own country code) Adding a prefix to an international redirecting number (PICS A.15/16 – national option @) Handling of address presentation restricted indicator set to "Address not available" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732;3.5.2.4/Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_With_redirecting_number_international_with_own_CC (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirecting_number_national ("B"))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- check_communication <-----REL----- <-----REL-----					

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Test Case Dynamic Behaviour

-----RLC-----> -----RLC----->

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_15_b_manipulations_in_the_redirecting_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP. Applicable tests : Converting the redirecting number to national format, if necessary (own country code) Adding a prefix to an international redirecting number (PICS A.15/16 – national option @) Handling of address presentation restricted indicator set to "Address not available" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732;3.5.2.4/Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_With_redirecting_number_international_with_for eign_CC (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirecting_number_international_with_pref ix ("*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- check_communication <-----REL----- <-----REL-----					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	-----RLC-----> -----RLC----->
	<div>1. The PTC will send an IAM with RgNb.</div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_15_c_manipulations_in_the_redirecting_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP. Applicable tests : Converting the redirecting number to national format, if necessary (own country code) Adding a prefix to an international redirecting number (PICS A.15/16 – national option @) Handling of address presentation restricted indicator set to "Address not available" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732;3.5.2.4/Q.731					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_With_redirecting_number_international_with_address_not_available (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_no_redirecting_number (*B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
16		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- <-----ANM----- <-----ANM----- check_communication <-----REL----- <-----REL----- -----RLC-----> -----RLC----->					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

-
1. The PTC will send an IAM with RgNb.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_16_a_manipulations_in_redirection_number_discard Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the redirection number according to the procedures as defined for COLP. Tests Applicable: Discarding the redirection number in case of bilateral agreements (PICS A.15/13) Converting the redirection number to international format Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732 /ETS 300 356-15					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_cdiv_info_and_gen_notification_ind (TCV_A_cic))			
11		+A_RECEIVE (CPG_m (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
13		+A_RECEIVE_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_s_BA_With_redirection_number_national_cdiv_info_and_gen_notification_ind (TCV_B_cic))			2.
16		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			3.
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB SPD -----IAM-----> -----IAM-----> (-----IAM----->) <-----ACM-----<-----ACM----- RnReas,number <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbResringing tone..... <-----ANM-----<-----ANM----- (<-----ANM-----) : Implementation:					

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Test Case Dynamic Behaviour			
Detailed Comments : ...	SPA	IUT	SPB
			SPD
	-----IAM----->	-----IAM----->	(-----IAM----->)
	<-----ACM-----	<-----ACM-----	RnReas,number
	<-----CPG-----	<-----CPG-----	(<-----ACM-----)
	RnNbRes		
	ringing tone.....	
	<-----ANM-----	<-----ANM-----	(<-----ANM-----)
	<-----REL-----	<-----REL-----	
	-----RLC----->	-----RLC----->	
<div>1. The PTC will provide the necessary stimulus.</div> <div>2. ACM with CDInf, GenNot ='Call is diverting' and a national RnNb.</div> <div>3. CPG(alerting) with RnNbRes-Coded as if its been mapped from ACM including BCI.</div>			

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_16_b_manipulations_in_redirection_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway checks and manipulates the redirection number according to the procedures as defined for COLP. Tests Applicable: Discarding the redirection number in case of bilateral agreements (PICS A.15/13) Converting the redirection number to international format Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732 /ETS 300 356-15					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			
10		+A_SEND (IAM_s_AB (TCV_A_cic))			1.
11		+A_RECEIVE (ACM_r_BA_With_redirection_number_international_cdiv_i nfo_and_gen_notification_ind (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting_and_redirection_num_rest (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release			
15		+A_RECEIVE_CALL_REL			
16		B_call_setup			
17		+B_RECEIVE_cic (IAM_r_AB ("B"))			2.
18		+B_SEND (ACM_s_BA_With_redirection_number_national_cdiv_info_ and_gen_notification_ind (TCV_B_cic))			3.
19		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			
20		+B_SEND (ANM_m (TCV_B_cic))			
21		B_call_release			
22		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB SPD -----IAM-----> -----IAM-----> (-----IAM----->) <-----ACM-----<-----ACM----- RnReas,number <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbResringing tone..... <-----ANM----- <-----ANM----- (<-----ANM-----) :					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

Implementation:

SPA

IUT

SPB

SPD

-----IAM-----> -----IAM-----> (-----IAM----->)

<-----ACM-----<-----ACM----- RnReas,number

<-----CPG-----<-----CPG----- (<-----ACM-----)

RnNbRes

.....ringing tone.....

<-----ANM-----<-----ANM----- (<-----ANM-----)

<-----REL-----<-----REL-----

-----RLC-----> -----RLC----->

1. The PTC will provide the necessary stimulus.

2. ACM with CDInf, GenNot='Call is diverting' and national RnNb.

3. CPG(alerting) with RnNbRes-Coded as if it's been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_17_IUT_removes_redirection_number_restriction_parameter Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the incoming international gateway removes the redirection number restriction parameter if the redirection number has been previously discarded in case of bilateral agreements. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.4 /Q.732 ; 3.5.2.4 /Q.731; /ETS 300 356-15					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_cdiv_info_and_gen_notification_ind (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_event_alerting (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		A_call_release +A_RECEIVE_CALL_REL			
14		B_call_setup +B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_s_BA_With_redirection_number_national_cdiv_info_and_gen_notification_ind (TCV_B_cic))			2.
16		+B_SEND (CPG_s_BA_With_alerting_and_redirection_num_rest (TCV_B_cic))			3.
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB SPD -----IAM-----> -----IAM-----> (-----IAM----->) <-----ACM-----<-----ACM----- RnReas,number <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbResringing tone..... <-----ANM-----<-----ANM----- (<-----ANM-----) : Implementation: SPA IUT SPB SPD					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----IAM-----> -----IAM-----> (-----IAM----->)
<-----ACM-----<-----ACM----- RnReas,number
<-----CPG-----<-----CPG----- (<-----ACM-----)
RnNbRes
          .....ringing tone.....
<-----ANM-----<-----ANM----- (<-----ANM-----)
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->
```

1. The PTC will provide the necessary stimulus.
2. ACM with CdInf , GenNot = 'Call is diverting' and a national RnNb.
3. CPG (alerting) with RnNbRes-Coded as if it has been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_18_Completion_of_diverted_call_by_the_divertedto_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Completion of diverted call by the diverted-to exchange <p>To verify that the IUT accepts and can successfully establish a diverted call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_18_call_setup, B_ISUP_PTC:B_12_18_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_12_18_call_connect, B_ISUP_PTC:B_12_18_call_connect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_12_18_call_release, B_ISUP_PTC:B_12_18_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			Sets final verdict
		A_12_18_call_setup			
12		+A_access_RECEIVE_setup (TSV_CREF1)			
13		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
		A_12_18_call_connect			
14		+A_access_SEND (connect_o_s (1,TSV_CREF1))			
15		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_12_18_call_release			
16		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_18_call_setup			
18		+B_SEND (IAM_s_BA_With_redirection_info_redirection_counter2_OriC dNb_RgNb (TCV_B_cic))			1-2.
19		+B_RECEIVE (ACM_r_AB_With_cdiv_info_natRnNb(TCV_B_cic))			3-4.
		B_12_18_call_connect			
20		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_12_18_call_release			
21		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					

Continued on next page

Test Case Dynamic Behaviour

1. The PTC will provide the necessary stimulus.
2. 2 diversions simulated in redirection counter ; Numbers sent: are OriCdNb and RgNb.
3. ACM with CDInf, GenNot = call is diverting and a national RnNb.
4. CPG (alerting) with RnNbRes – coded as if it has been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_19_Setting_of_redirection_number_restriction_parameter_at_the_divertedto_exchange_pres_allowed Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Setting of redirection number restriction parameter at the diverted-to exchange (pres. allowed) To verify that the IUT includes the redirection number restriction indicator in the ACM, CPG, ANM or CON set to "presentation allowed" (COLR not activated). Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1.1 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_19_call_setup, B_ISUP_PTC:B_12_19_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_12_19_call_release, B_ISUP_PTC:B_12_19_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_12_19_call_setup			
9		+A_access_RECEIVE_setup (TSV_CREF1)			
10		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
11		+A_access_SEND (connect_o_s (1,TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
		A_12_19_call_release			
13		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_12_19_call_setup			
15		+B_SEND (IAM_s_BA_diverted_call (TCV_B_cic))			
16		START T_B_STEP			
17		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (ACM_r_AB_red_numb_pres_allowed(TCV_B_cic))	(P)	
18		+ringing_tone			
19		B_PCO ? M_TRANSFERind	B_receive (ANM_m(TCV_B_cic))		
20		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (ACM_m(TCV_B_cic))		
21		B_PCO ? M_TRANSFERind	B_receive (CPG_r_AB_red_numb_pres_allowed(TCV_B_cic))	(P)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+ringing_tone			
23		B_PCO ? M_TRANSFERind	B_receive (ANM_m(TCV_B_cic))		
24		+ringing_tone			
25		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (ANM_r_AB_red _numb_pres_allo wed(TCV_B_cic))	(P)	
26		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (CON_r_AB_red _numb_pres_allo wed(TCV_B_cic))	(P)	
27		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
28		? TIMEOUT T_B_STEP		(F)	
		B_12_19_call_release			
29		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

```

access          SPA          SPB
<----- setup -----<-----IAM-----> (Diverted call)
-----alerting-----> -----ACM-----> RnNbRes (1)
:
or
-----alerting-----> -----ACM----->
:
-----CPG-----> RnNbRes (2)
or
-----alerting-----> -----ACM----->
-----connect-----> -----ANM-----> RnNbRes (3)
:
or
-----connect-----> -----CON-----> RnNbRes (4)
:

```

Implementation:

```

access          IUT          SPB
<----- setup -----<-----IAM-----> (Diverted call)
-----alerting-----> -----ACM-----> RnNbRes (1)
:
or
-----alerting-----> -----ACM----->
:
-----CPG-----> RnNbRes (2)
or
-----alerting-----> -----ACM----->
-----connect-----> -----ANM-----> RnNbRes (3)
:
or
-----connect-----> -----CON-----> RnNbRes (4)
-----disconnect----> -----REL----->
<-----RLC----->

```

1.-4. Pass when the redirection number restriction parameter with the coding 00 – Presentation

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Test Case Dynamic Behaviour
Detailed Comments : ... allowed is received in one of the allowed messages. 5. Check the ringing tone from SPA to SPB.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_20_Setting_the_redirection_number_restriction_indicator_at_the_divertedto_exchange_pres_restricted Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Setting the redirection number restriction indicator at the diverted-to exchange (pres. restricted) To verify that the IUT includes the redirection number restriction indicator " in the ACM, CPG, ANM or CON set to "presentation restricted" (COLR activated). Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1.1 /Q.732 Arrange the data in the IUT so that the diverted-to user subscribes to the COLR supplementary service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_20_call_setup, B_ISUP_PTC:B_12_20_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_12_20_call_release, B_ISUP_PTC:B_12_20_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_12_20_call_setup +A_access_RECEIVE_setup (TSV_CREF1)			1.
10		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
11		+A_access_SEND (connect_o_s (1,TSV_CREF1))			
12		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
13		A_12_20_call_release +A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
15		B_12_20_call_setup +B_SEND (IAM_s_BA_diverted_call (TCV_B_cic))			
16		START T_B_STEP			
17		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (ACM_r_AB_red_numb_pres_rest(TCV_B_cic))	(P)	
18		+ringing_tone			
19		B_PCO ? M_TRANSFERind	B_receive (ANM_m(TCV_B_cic))		
20		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (ACM_m(TCV_B_cic))		
21		B_PCO ? M_TRANSFERind	B_receive (CPG_r_AB_red_numb_pres_rest(TCV_B_cic))	(P)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+ringing_tone			
23		B_PCO ? M_TRANSFERind	B_receive (ANM_m(TCV_B_cic))		
24		+ringing_tone			
25		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (ANM_r_AB_red _numb_pres_rest (TCV_B_cic))	(P)	
26		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (CON_r_AB_red _numb_pres_rest (TCV_B_cic))	(P)	
27		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
28		? TIMEOUT T_B_STEP		(F)	
		B_12_20_call_release			
29		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that the diverted-to user subscribes to the COLR supplementary service.

```

access          SPA          SPB
<-----setup----- <-----IAM----- (Diverted call)
-----alerting-----> -----ACM-----> RnNbRes (2.)
:
or
-----alerting-----> -----ACM----->
:
-----CPG-----> RnNbRes (3.)
or
-----alerting-----> -----ACM----->
-----connect-----> -----ANM-----> RnNbRes (4.)
:
or
-----connect-----> -----CON-----> RnNbRes (5.)

```

Implementation:

```

access          IUT          SPB
<-----setup----- <-----IAM----- (Diverted call)
-----alerting-----> -----ACM-----> RnNbRes (2.)
:
or
-----alerting-----> -----ACM----->
:
-----CPG-----> RnNbRes (3.)
or
-----alerting-----> -----ACM----->
-----connect-----> -----ANM-----> RnNbRes (4.)
:
or
-----connect-----> -----CON-----> RnNbRes (5.)
-----disconnect-----> -----REL----->
<-----RLC-----

```

1. The left access PTC will assist the call set-up with the expected parameters.

2.-5. Pass when the redirection number restriction parameter with the coding 01 – Presentation

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Test Case Dynamic Behaviour
Detailed Comments : ... restricted is received in one of the allowed messages. 6. Check the ringing tone from SPA to SPB.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_21_IUT_can_divert_a_call_not_diverted_earlier Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the IUT can successfully divert a call which has not been diverted before and set the redirection counter to the correct value. <p>The call is diverted directly to another exchange, the redirection counter should be set to 1.</p> Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 1) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB (No diversions) (One diversions) -----IAM-----> -----IAM-----> : Implementation:					

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Test Case Dynamic Behaviour			
Detailed Comments : ...	SPA	IUT	SPB
	-----IAM----->	-----IAM----->	
	<-----ACM-----	<-----ACM-----	
	<-----CPG-----	<-----ANM-----	
	<-----CPG-----		
	<-----ANM-----		
 check_communication		
	<-----REL-----	<-----REL-----	
	-----RLC----->	-----RLC----->	
<hr/>			
1. The PTC will send an IAM with a national (significant) OriCdNb.			

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_22_IUT_can_divert_a_call_not_diverted_earlier Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the IUT can successfully divert a call which has not been diverted before and set the redirection counter to the correct value. Note: The call is diverted N<=5 times; the redirection counter should be set to N. (e.g. for the pre-test condition the call is diverted twice: once to the same exchange and then to an external exchange, N=2) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 1) /Q.732 PRE-TEST CONDITIONS : For N=2 arrange the data in the IUT so that called user has activated diversion to another user on the same exchange, and this user at his turn has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number (**B))			2.
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB (No diversions) (one local diversion) (Two diversions) -----IAM-----> -----IAM-----> :					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

Implementation:

SPA	IUT	SPB
(No diversions)	(one local diversion)	(Two diversions)

-----IAM----->	-----IAM----->
<-----ACM-----	<-----ACM-----
<-----CPG-----	<-----ANM-----
<-----CPG-----	
<-----ANM-----	
.... check_communication	
<-----REL-----	<-----REL-----
-----RLC----->	-----RLC----->

-
1. The PTC will send an IAM with a national (significant) OriCdNb.
 2. RnCnt = 2 = '010'B expected.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_23_IUT_can_divert_a_call_diverted_earlier Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the IUT can successfully divert a call which has already been diverted before and increment the redirection counter. Note: The call has been diverted 1–4 times. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 1) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB_After_redirection (TCV_A_cic))			
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB_With_redirection_counter_incremented ("*B))			
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
18		+B_SEND_CALL_REL			
Detailed Comments :					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_24_IUT_sets_the_presentation_indicator_of_original_called_num_to_allowed Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT sets the address presentation restricted indicator of the original called number according to the "served user releases his/her to the diverted –to user" option. NOTE: The redirecting indicator in the redirecting information shall be set to '011 call diverted'. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 4) /Q.732 2.5.2.5.1.2 b) 6) /ETS 300 356–15 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB (Subsc. Opt Release Info) -----IAM-----> -----IAM-----> (RnInf.Rglc = '011' & OriCdNb.APRI='00') : Implementation: SPA IUT SPB					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div><div><div>-----IAM-----> -----IAM-----></div><div><-----ACM----- <-----ACM-----</div><div><-----CPG----- - <-----ANM-----</div><div><-----CPG-----</div><div><-----ANM-----</div><div>.... check_communication</div><div><-----REL----- <-----REL-----</div><div>-----RLC-----> -----RLC-----></div></div></div> <div><div></div><div>1. The PTC will send an IAM with a national (significant) OriCdNb.</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_25_IUT_sets_the_presentation_indicator_of_redirecting_num_to_allowed Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT sets the address presentation restricted indicator of the redirecting number according to the "served user releases his/her to the diverted –to user" option. NOTE: The redirecting indicator in the redirecting information shall be set to '011 call diverted'. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 4) /Q.732 , 2.5.2.5.1.2 b) 6) /ETS 300 356–15 PRE–TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_redirecting_number_a_s_allowed ('**B'))			
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB (Subsc. Opt Release Info) -----IAM-----> -----IAM-----> (RnInf.Rglc = '011' & OriCdNb.APRI='00') : Implementation: SPA IUT SPB					

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Test Case Dynamic Behaviour

```

-----IAM----->-----IAM----->
<-----ACM-----<-----ACM-----
<-----CPG-----<-----ANM-----
<-----CPG-----
<-----ANM-----
      .... check_communication ....
<-----REL-----<-----REL-----
-----RLC----->-----RLC----->

```

- 1426

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_26_a_IUT_converts_ISUP_not_reqd_to_ISUP_preferred Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully divert a call and that ISDN user part preference indicator received in the forward call indicators with the value "ISDN user part..... not required all the way " shall be changed to " ISDN user part preferred all the way" preferred all the way" shall be left unchanged required all the way " shall be left unchanged. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 5) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Cdiv_FCI_ISUP_not_required (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_redirecting_number_FCI_ISUP_preferred ("*B))			2.
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB ISUP not required ISUP preferred -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB					

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Test Case Dynamic Behaviour

```

-----IAM----->-----IAM----->
<-----ACM-----<-----ACM-----
<-----CPG-----<-----ANM-----
<-----CPG-----
<-----ANM-----
      .... check_communication ....
<-----REL-----<-----REL-----
-----RLC----->-----RLC----->

```

- 1428

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_26_b_IUT_keeps_ISUP_preferred_unchanged Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully divert a call and that ISDN user part preference indicator received in the forward call indicators with the value "ISDN user part..... not required all the way " shall be changed to " ISDN user part preferred all the way" preferred all the way" shall be left unchanged required all the way " shall be left unchanged. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 5) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Cdiv_FCI_ISUP_preferred (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_redirecting_number_FCI_ISUP_preferred ("*B))			2.
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB ISUP required ISUP preferred -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB					

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Continued from previous page

Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div><div><div>-----IAM-----> -----IAM-----></div><div><-----ACM----- <-----ACM-----</div><div><-----CPG----- - <-----ANM-----</div><div><-----CPG-----</div><div><-----ANM-----</div><div>.... check_communication</div><div><-----REL----- <-----REL-----</div><div>-----RLC-----> -----RLC-----></div></div><div><div>1. 1. The PTC will send an IAM with the expected stimulus to the diverting exchange.</div><div>2. The ISUP preference indicator is checked.</div></div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_26_c_IUT_keeps_ISUP_required_unchanged Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully divert a call and that ISDN user part preference indicator received in the forward call indicators with the value "ISDN user part..... not required all the way " shall be changed to " ISDN user part preferred all the way" preferred all the way" shall be left unchanged required all the way " shall be left unchanged. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 b) 5) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Cdiv_FCI_ISUP_required (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_redirecting_number_F CI_ISUP_required (**B))			2.
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB ISUP required ISUP required -----IAM-----> -----IAM-----> : Implementation: SPA IUT SPB					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----IAM-----> -----IAM----->
<-----ACM----- <-----ACM-----
<-----CPG----- <-----ANM-----
<-----CPG-----
<-----ANM-----
      .... check_communication ....
<-----REL----- <-----REL-----
-----RLC-----> -----RLC----->
```

-
1. The PTC will send an IAM with the expected stimulus to the diverting exchange.
 2. The ISUP preference indicator is checked.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_27_IUT_sets_CDmo_in_OBCI Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT includes an Optional Backward Call Indicator with the indication "Call Diversion may Occur" in the ACM in case of CFNR,CD(a),CFB(u,e) and CD(i,e). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 c) ii) ; iii) /Q.732 2. PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated the appropriate diversion service to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			2.
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB <pre> -----IAM-----> <-----ACM----- CDmo <-----CPG-----IAM-----> <-----CPG-----<-----ACM-----ringing tone..... <-----ANM-----<-----ANM----- </pre>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments** : ...
:

Implementation:

SPA	(IUT)	SPB
-----IAM----->		
<-----ACM-----	CDmo	
<-----CPG-----	-----IAM----->	
<-----CPG-----	<-----ACM-----	
ringing tone.....	
<-----ANM-----	<-----ANM-----	
 check_communication	
<-----REL-----	<-----REL-----	
-----RLC----->	-----RLC----->	

-
1. The stimulus ISUP will initiate a call setup to diverting user at IUT and expect to receive the indication " Call diversion may occur".
 2. Verdict is set by checking status on left PTC.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_28_a_Served_user_answers_the_call_before_TCFNR_expiry Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Served user answers the call before TCFNR expiry <p>To verify that a call may be answered by the served user and that no signalling occurs on the diverted-to user leg if the call is answered before timeout of Timer TCFNR, in case of CFNR</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1.2 c) ii) ; Table 2-2 /Q.732 Arrange the data in the IUT so that called user has activated the CFNR service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_12_28_a_call_setup, A_ACCESS_PTC:U_12_28_a_call_setup, B_ISUP_PTC:B_12_28_a_call_setup)			
3		?DONE (A_ISUP_PTC, A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_12_28_a_call_release, A_ACCESS_PTC:U_12_28_a_call_release)			
6		?DONE (A_ISUP_PTC, A_ACCESS_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_12_28_a_call_setup +A_SEND (IAM_s_AU_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		A_12_28_a_call_release +A_RECEIVE_CALL_REL			
13		U_12_28_a_call_setup +A_access_RECEIVE_setup (TSV_CREF1)			
14		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
15		+A_access_SEND (connect_o_s (1,TSV_CREF1))			
16		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
17		U_12_28_a_call_release +A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
19		B_12_28_a_call_setup START TCFNR_max			
20		? TIMEOUT TCFNR_max		(P)	2.
21		B_PCO ? OTHERWISE CANCEL TCFNR_max		(F)	
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that called user has activated the CFNR service.					

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

Case a)

SPC

SPA

SPB

-----IAM----->

<-----ACM-----

CDmo

<-----ANM-----

:

Implementation:

SPC

IUT

SPB

access

-----IAM----->

-----setup----->

<-----ACM-----

CDmo

<-----alert-----

<-----ANM-----

<-----connect-----

<-----REL-----

<-----disconnect-----

-----RLC----->

1. The stimulus ISUP will initiate a call set up to diverting user at IUT and expect to receive the indication call diversion may occur.

2. Pass if no signalling is observed on the AB link.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_H_12_28_b_IUT_forwards_the_call_after_CFNr_timeout Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that a call may be answered by the served user and that no signalling occurs on the diverted-to user leg if the call is answered before timeout of timer TCFNR, in case of CFNR. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 c) ii) ; Table 2-2 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated the CFNR service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_with_CFNr (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup START TCFNR_min, START TCFNR_max			2.
16		? TIMEOUT TCFNR_min			
17		+B_RECEIVE_cic (IAM_r_AB_With_redirection_info_with_CFNr ("B"))			3.
18		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
19		+B_SEND (ANM_m (TCV_B_cic))			
20		? TIMEOUT TCFNR_max		(F)	
21		B_PCO ? OTHERWISE CANCEL TCFNR_min, CANCEL TCFNR_max		(F)	
22		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB -----IAM-----> <-----ACM----- CDmo TCFNR Expiry					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ...</div> <div><-----CPG-----IAM-----></div> <div><-----CPG-----ACM-----</div> <div>.....ringing tone.....</div> <div><-----ANM-----ANM-----</div> <div>:</div> <div>Implementation:</div> <div>SPC</div> <div>SPA (IUT)</div> <div>SPB</div> <div>-----IAM-----></div> <div><-----ACM-----CDmo</div> <div>TCFNR Expiry</div> <div><-----CPG-----IAM-----></div> <div><-----CPG-----ACM-----</div> <div>.....ringing tone.....</div> <div><-----ANM-----ANM-----</div> <div>.... check_communication</div> <div><-----REL-----REL-----</div> <div>-----RLC----->-----RLC-----></div> <div>1. The stimulus ISUP will initiate a call setup to diverting user at IUT and expect to receive the indication " Call diversion may occur".</div> <div>2. Window for receiving the forwarding call is created.</div> <div>3. Pass if IAM is received inside window.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_29_IUT_connects_incoming_to_outgoing_circuit_immediately Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully divert a call and that the incoming circuit is connected to the chosen outgoing circuit immediately, in case of CFU, CFB, CD(i), CFNR(B) and CD(a,B). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 c) i); ii); iii) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated the appropriate diversion service to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			2.
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB <pre> -----IAM-----> <---ACM{CDmo/NoInd}-- <-----IAM-----> (with RnInf, OriCdNb, RgNb) Check Both Way Communication <-----CPG----- <-----ACM----- RnNbRes ringing tone..... : Implementation: </pre>					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
SPA	(IUT)	SPB
-----IAM----->		
<---ACM{CDmo/NoInd}-- -----IAM-----> (with RnInf, OriCdNb, RgNb)		
Check Both Way Communication		
<-----CPG-----<-----ACM----- RnNbRes		
.....ringing tone.....		
<-----CPG-----<-----ANM-----		
<-----ANM-----		
.... check_communication		
<-----REL-----<-----REL-----		
-----RLC-----> -----RLC----->		
<hr/>		
1. The stimulus ISUP will initiate a call setup with the expected signalling information.		
2. The incoming circuit should be conected to the outgoing circuit in both directions immediately.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_30_IUT_throughconnects_in_the_backward_direction_after_receiving_alerting Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT throughconnects in the backward direction (incoming circuit) after receiving the alerting indication and in the forward direction (outgoing direction) after receiving the answer (connect) indication , in case of CFNR(A) and CD(a,A). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 c) ii) /Q.732 Note: The IUT can through-connect in both directions after receiving the alerting indication.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			3.
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_with_CFNR (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_with_CFNR ("*B))			
16		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			3.
18		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB <pre> -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> Check that there is no through-connection <-----CPG----- <-----ACM----- (RnNbRes) Check that there is through-connection backward direction (e.g. ..ringing tone..) <-----ANM----- <-----ANM----- Check that there is through connection in both directions : SPA IUT SPB </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----IAM----->
<---ACM{CDmo/NoInd}-- -----IAM----->
    Check that there is no through-connection
<-----CPG-----
<-----CPG----- <-----ACM----- (RnNbRes)
    Check that there is through-connection backward direction (e.g. ..ringing tone..)
<-----ANM----- <-----ANM-----
    Check that there is through connection in both directions
<-----REL----- <-----REL-----
-----RLC-----> -----RLC----->
```

-
1. The stimulus ISUP will initiate a call setup with the expected signalling information.
 2. Will disrupt the call handling and cause failure if received unexpectedly at left PTC.
 3. Steps checks backward through-connection in backward direction before ANM and two-way communication after ANM.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_31_Served_user_answers_before_receipt_of_alerting_indication_from_divertedto_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Served user answers before receipt of alerting indication from diverted-to exchange To verify that the IUT allows the served user to answer the call after the IAM has been sent to the diverted-to exchange, in case of CFNR(A) and CD(a,A). The served user shall be allowed to answer the call after ACM (no indication) has been received and the connection towards the diverted-to exchange shall be released. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1.2 c) ii) ; /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_12_31_call_setup, A_ACCESS_PTC:U_12_31_call_setup, B_ISUP_PTC:B_12_31_call_setup)			
3		?DONE (A_ISUP_PTC, A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_12_31_call_conn, A_ACCESS_PTC:U_12_31_call_conn, B_ISUP_PTC:B_12_31_call_release)			
5		?DONE (A_ISUP_PTC, A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_12_31_call_release, A_ACCESS_PTC:U_12_31_call_release)			
8		?DONE (A_ISUP_PTC, A_ACCESS_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_12_31_call_setup +A_SEND (IAM_s_AU_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
12		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
13		+ringing_tone			
14		A_12_31_call_conn +A_RECEIVE (ANM_o (TCV_A_cic))			5.
15		A_12_31_call_release +A_RECEIVE_CALL_REL			
16		U_12_31_call_setup +A_access_RECEIVE_setup (TSV_CREF1)			2.
17		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
18		U_12_31_call_conn +A_access_SEND (connect_o_s (1,TSV_CREF1))			
19		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1)) U_12_31_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
21		+A_access_RECEIVE_CALL_REL_DEFAULT			
22		B_12_31_call_setup			
23		START TCFNR_min, START TCFNR_max			
24		? TIMEOUT TCFNR_min CANCEL TCFNR_max			3.
25		+B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
26		+B_SEND (ACM_s_BA_With_OBCI_CDmo (TCV_B_cic))			
27		? TIMEOUT TCFNR_max		(F)	4.
28		B_PCO ? OTHERWISE CANCEL TCFNR_min, CANCEL TCFNR_max		(F)	
29		B_12_31_call_release			
		+B_RECEIVE (REL_m (TCV_B_cic))			
		+B_SEND (RLC_m (TCV_B_cic))			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.

```

SPC                SPA                SPB
-----IAM----->
<-----ACM----- CDmo
                        TCFNR expiry
                        -----IAM----->
                        <---ACM (NoInd)----

Served user answers
<-----ANM----- <-----REL----->
:                  <----- RLC----->

```

Implementation:

```

SPA                IUT                SPB                access
-----IAM-----> -----setup----->
<-----ACM----- CDmo <-----alert----->
                        TCFNR expiry
                        -----IAM----->
                        <---ACM (NoInd)----

Served user answers
<-----ANM----- <-----connect----->
:                  <-----REL----->
:                  <----- RLC----->
<-----REL----- <-----disconnect----->
-----RLC----->

```

1. The stimulus ISUP will initiate a call set up to diverting user at IUT .
2. The stimulus access will assist the call set up at the served user side.
3. ACM with no indication as if another diversion may occur in order to give time to the user at UNI at SPA to answer the call.
4. Call on forwarding leg is released.
5. Successful call set up carried out by the PTC.

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_32_Unsuccessful_call_setup_to_the_divertedto_user_ringing_tone_applied_by_the_diverting_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Unsuccessful call setup to the diverted-to user, ringing tone applied by the diverting exchange To verify that, if the IUT receives a release indication with cause "user busy" from the diverted-to exchange, it continues to provide ringing tone to the calling user until he releases the connection (or timer T9 in the controlling exchange expires), in case of CFNR(A) and CD(a,A). Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1.2 c) ii) ; /Q.732 Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_12_32_call, A_ACCESS_PTC:U_12_32_call, B_ISUP_PTC:B_12_32_call)			
3		?DONE (A_ISUP_PTC, A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			Sets final verdict
6		A_12_32_call +A_SEND (IAM_s_AU_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
7		START T9min			
8		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
9		+ringing_tone			
10		?TIMEOUT T9min			
11		+A_SEND (REL_m (TCV_A_cic))			
12		+A_RECEIVE (RLC_m (TCV_A_cic))			
13		U_12_32_call +A_access_RECEIVE_setup (TSV_CREF1)			
14		+A_access_SEND (alert_o_s (1,TSV_CREF1))			2.
15		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
16		+A_access_SEND_CALL_REL_DEFAULT			
17		B_12_32_call START TCFNR_min, START TCFNR_max			
18		? TIMEOUT TCFNR_min CANCEL TCFNR_max			
19		+B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
20		+B_SEND (REL_s_BA_With_cause_user_busy_and_location_user (TCV_B_cic))			3.
21		+B_RECEIVE (RLC_m (TCV_B_cic))			
22		? TIMEOUT TCFNR_max		(F)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		B_PCO ? OTHERWISE CANCEL TCFNR_min, CANCEL TCFNR_max		(F)	
<div>Detailed Comments :<div>Pre-test conditions Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.</div><div><div><div>SPC</div><div>SPA</div><div>SPB</div></div><div><div>-----IAM-----></div><div><-----ACM-----</div><div>CDmo</div><div>TCFNR expiry</div><div>-----IAM-----></div><div><-----REL ----- busy</div><div>-----RLC-----></div><div>...ringing tone...</div><div>T9</div><div>-----REL-----></div><div><-----RLC-----</div></div></div></div>					
<div>Implementation:<div><div><div>SPC</div><div>IUT</div><div>SPB</div><div>access</div></div><div><div>-----IAM-----></div><div><-----ACM-----</div><div>CDmo</div><div>-----setup-----></div><div><-----alert-----</div><div>-----disconnect-----></div><div>TCFNR expiry</div><div>-----IAM-----></div><div><-----REL ----- busy</div><div>-----RLC-----></div><div>...ringing tone...</div><div>T9</div><div>-----REL-----></div><div><-----RLC-----</div></div></div></div>					
<div>1. The stimulus ISUP will initiate a call set up to the diverting user at IUT and check ringing tone</div> <div>2. The stimulus access is mainly responsible for generating the ringing tone.</div> <div>3. Release with cause #17.</div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_33_IUT_receives_release_from_diverted_to_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that if the IUT receives a release indication with cause "user busy" from the diverted-to exchange, it releases the call (incoming circuit) and the resources, in case of CFU, CFB, CD (i), CFNR(B) and CD(a,B). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 c) iii) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated CFU, CFB, CD(i), CFNR(B) or CA(a,B) to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_idle			
7		+postamble			Sets final verdict
8		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
9		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
10		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
11		A_call_release +A_RECEIVE (REL_r_BA_With_cause_user_busy_and_location_user (TCV_A_cic))			
12		+A_SEND (RLC_m (TCV_A_cic))			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed ("*B))			
14		B_call_release +B_SEND (REL_s_BA_With_cause_user_busy_and_location_user (TCV_B_cic))			2.
15		+B_RECEIVE (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA (IUT) SPB <pre> -----IAM-----> <---ACM----- Diverting -----IAM-----> (<-----CPG-----) for CFB(u,e), CD(i,e) <-----REL----- <-----REL----- -----RLC-----> -----RLC----- : </pre>					

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Test Case Dynamic Behaviour

1. The stimulus ISUP will initiate a call setup to the diverting user at IUT and check the release of resources.
2. Release the call with cause #17. location 'user'.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_H_12_34_IUT_stores_diversion_information_in_backward_direction Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully divert a call and store the diversion information parameters in the backward direction, until an alerting indication is received from the diverted-to exchanges, in case of CFNR (A) and CD(a,A). The IUT shall be able to receive several CPG messages with call diversion information and shall retain the most recent redirection reason and the most severe notification subscription option. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 e) i) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the called user has activated CFNR(A) or CD(a,A) to an external exchange and that the NSO are not restrictive.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_progress1, B_ISUP_PTC:B_call_progress1)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		CREATE (A_ISUP_PTC:A_progress2, B_ISUP_PTC:B_progress2)			
7		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC:A_alerting, B_ISUP_PTC:B_alerting)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+check_communication			
11		CREATE (A_ISUP_PTC:A_release, B_ISUP_PTC:B_release)			
12		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
13		+check_idle			
14		+postamble			Sets final verdict
15		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
16		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			2.
17		A_call_progress1 +A_RECEIVE (CPG_r_BA_With_cdiv_info_with_CFNR (TCV_A_cic))			3.
18		A_progress2 START T_A_STEP			
19		?TIMEOUT T_A_STEP		(P)	
20		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
21		A_alerting +A_RECEIVE (CPG_r_BA_With_alerting_with_redirection_number_restricti on_as_restricted (TCV_A_cic))			4.
22		+A_RECEIVE (ANM_m (TCV_A_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		A_release +A_RECEIVE_CALL_REL			
24		B_call_setup START T_B_STEP			
25		?TIMEOUT T_B_STEP		(P)	
26		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
27		B_call_progress1 +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_with_CFNr ('*B))			
28		B_progress2 +B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_restriction_allowed_with_redirection_number (TCV_B_cic))			
29		+B_SEND (CPG_s_BA_With_cdiv_info_as_restriction_allowed (TCV_B_cic))			
30		B_alerting +B_SEND (CPG_s_BA_With_alerting_with_redirection_number_restricti on_as_restricted (TCV_B_cic))			
31		+B_SEND (ANM_m (TCV_B_cic))			
32		B_release +B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA (IUT) SPB SP D CFNR (NSO=010) CFU (NS=011) COLR activated</p> <pre> -----IAM-----> <---ACM-----IAM-----> CDmo <-----ACM----- (-----IAM----->) NoInd,RnReas =CFU, Nb_D <-----CPG----- progress, RnNbRes=00 <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbRes=01, alerting RnNbRes=01, subscriber free ringing tone..... <-----ANM-----<-----ANM----- : Implementation: SPA IUT SPB SP D CFNR (NSO=010) CFU (NS=011) COLR activated -----IAM-----> <---ACM-----IAM-----> CDmo <-----ACM----- (-----IAM----->) NoInd,RnReas =CFU, Nb_D <-----CPG----- progress, RnNbRes=00 <-----CPG-----<-----CPG----- (<-----ACM-----) RnNbRes=01, alerting RnNbRes=01, subscriber free </pre>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

....ringing tone.....
<-----ANM-----<-----ANM-----
.... check_communication
<-----REL-----<-----REL-----
-----RLC----->-----RLC----->

-
1. The PTC will provide the necessary stimulus.
 2. ACM with CDInf, GenNot='Call is Diverting' and RnNb=TSP_Nb_D
 3. CPG (progress) with RnNbRes=00 from user at UNI SPB (No COLR activated)
 4. CPG (alerting) with RnNbRes=01 from user at UNI SPD (COLR activated) – coded as if it has been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_35_IUT_passes_diversion_information_in_backward_direction Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To Verify that the IUT can successfully divert a call and pass on in the backward direction, the diversion information parameters received from the diverted-to exchanges, in case of CFU , CFB, CD(i), CFNR (B) and CD(a,B). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 e) i) 1)/Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the called user has activated CFU, CFB, CD(i), CFNR(B) or CD(a,B) to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_progress1, B_ISUP_PTC:B_call_progress1)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		CREATE (A_ISUP_PTC:A_progress2, B_ISUP_PTC:B_progress2)			
7		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC:A_alerting, B_ISUP_PTC:B_alerting)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+check_communication			
11		CREATE (A_ISUP_PTC:A_release, B_ISUP_PTC:B_release)			
12		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
13		+check_idle			
14		+postamble			Sets final verdict
15		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
16		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			2.
17		A_call_progress1 +A_RECEIVE (CPG_r_BA_With_cdiv_info_with_CFB (TCV_A_cic))			
18		A_progress2 +A_RECEIVE (CPG_r_BA_With_cdiv_info_with_CFU_and_restriction_allowed_with_redirection_number (TCV_A_cic))			3.
19		+A_RECEIVE (CPG_r_BA_With_cdiv_info_as_restriction_allowed (TCV_A_cic))			
20		A_alerting +A_RECEIVE (CPG_r_BA_With_alerting_with_redirection_number_restricti on_as_restricted (TCV_A_cic))			4.
21		+A_RECEIVE (ANM_m (TCV_A_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		A_release +A_RECEIVE_CALL_REL			
23		B_call_setup			
24		START T_B_STEP		(P)	
25		?TIMEOUT T_B_STEP B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
26		B_call_progress1 +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_with_CFB ('*B))			
27		B_progress2 +B_SEND (ACM_s_BA_With_cdiv_info_with_CFU_and_restriction_allowed_with_redirection_number (TCV_B_cic))			
28		+B_SEND (CPG_s_BA_With_cdiv_info_as_restriction_allowed (TCV_B_cic))			
29		B_alerting +B_SEND (CPG_s_BA_With_alerting_with_redirection_number_restriction_as_restricted (TCV_B_cic))			
30		+B_SEND (ANM_m (TCV_B_cic))			
31		B_release +B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA (IUT) SPB SP D CFNR (NSO=010) CFU (NS=011) COLR activated</p> <pre> -----IAM-----> <---ACM----->-----IAM-----> (<---CPG-----) CFB(u,e), CD(i,e) <---CPG-----<---ACM----- (-----IAM----->) NoInd,RnReas =CFU, Nb_D <---CPG-----<---CPG----- progress, RnNbRes=00 <---CPG-----<---CPG----- (<---ACM-----) RnNbRes=01, alerting RnNbRes=01, subscriber free ringing tone..... <---ANM-----<---ANM----- : Implementation: SPA IUT SPB SP D CFNR (NSO=010) CFU (NS=011) COLR activated -----IAM-----> <---ACM----->-----IAM-----> (<---CPG-----) CFB(u,e), CD(i,e) <---CPG-----<---ACM----- (-----IAM----->) NoInd,RnReas =CFU, Nb_D <---CPG-----<---CPG----- progress, RnNbRes=00 <---CPG-----<---CPG----- (<---ACM-----) RnNbRes=01, alerting RnNbRes=01, subscriber free </pre>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

....ringing tone.....
<-----ANM-----<-----ANM-----
.... check_communication
<-----REL-----<-----REL-----
-----RLC-----> -----RLC----->

-
1. The PTC will provide the necessary stimulus.
 2. ACM with CDInf, GenNot='Call is Diverting' and RnNb=TSP_Nb_D
 3. CPG (progress) with RnNbRes=00 from user at UNI SPB (No COLR activated)
 4. CPG (alerting) with RnNbRes=01 from user at UNI SPD (COLR activated) – coded as if it has been mapped from ACM including BCI.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_36_IUT_maps_CON_to_CPG_followed_by_ANM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT can successfully divert a call and map a received CON from the forwarding leg, to a CPG(alerting) followed by an ANM on the preceding leg, in case of CFNR(A) or CD(a,A). Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 e) i) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
13		+A_RECEIVE (ANM_m (TCV_A_cic))			
14		A_call_release +A_RECEIVE_CALL_REL			
15		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_with_CFNR ("*B))			
16		+B_SEND (CON_s_BA_With_redirection_number_restriction (TCV_B_cic))			
17		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB <pre> -----IAM-----> <-----ACM{CDmo}----- <---CPG{diverting}----- <-----IAM-----> In case of CFNR(A), CD(a,A) <---CPG{alerting}----- <-----CON----- RbNbRes <-----ANM----- : Implementation: </pre> SPA IUT SPB					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

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-----IAM----->
<-----ACM{CDmo}-----
<---CPG{diverting}-----  -----IAM-----> In case of CFNR(A), CD(a,A)
<---CPG{alerting}----- <-----CON----- RbNbRes
<-----ANM-----
      .... check_communication ....
<-----REL----- <-----REL-----
-----RLC-----> -----RLC----->
```

-
1. The stimulus ISUP will initiate a call setup with the expected signalling information.
 2. The incoming circuit should be connected to the outgoing circuit in both directions immediately.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_37_IUT_maps_CON_to_CPG_followed_by_ANM Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT can successfully divert a call and map a received CON from the forwarding leg, to an ANM on the preceding leg, in case of CFU,CFB,CD(i),CFNR(B) or CD(a,B) . Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 e) i) /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated CFU,CFB,CD(i),CDNR(B) or CD(a,B) to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
10		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			2.
11		+A_RECEIVE (ANM_r_BA_With_redirection_number_restriction (TCV_A_cic))			
12		A_call_release +A_RECEIVE_CALL_REL			
13		B_call_setup +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_with_CFU ("*B))			
14		+B_SEND (CON_s_BA_With_redirection_number_restriction (TCV_B_cic))			
15		B_call_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB -----IAM-----> <---CPG{diverting}----- <-----IAM-----> In case of CFB(n),CFB(u,l),CFU,CD(i,l) or <-----ACM{CDmo}----- <---CPG{alerting}----- <-----IAM-----> In case of CFB(u,e), CFNR(B),CD(a,B), CD(i,e) <-----ANM----- <-----CON----- RnNbRes : Implementation:					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
SPA	IUT	SPB
-----IAM----->		
<---ACM{diverting}----- -----IAM-----> In case of CFU		
<-----ANM----- <-----CON----- RnNbRes		
.... check_communication		
<-----REL----- <-----REL-----		
-----RLC-----> -----RLC----->		
<hr/>		
1. The stimulus ISUP will initiate a call setup with the expected signalling information.		
2. The incoming circuit should be connected to the outgoing circuit in both directions immediately.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_38_IUT_receives_no_ACM_from_forwarded_to_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT can divert a call and release the resources upon T7 timer expiry if no ACM is received from the forwarded to exchange. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.1.1.1 e) ; Table A 1 /Q.764 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+postamble			Sets final verdict
7		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
8		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
9		+A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
10		A_call_release			
11		START T7min, START T7max			
12		? TIMEOUT T7min			
13		+A_RECEIVE(REL_r_BA_Default (TCV_A_cic))			2.
14		CANCEL T7max			
15		+A_SEND (RLC_m (TCV_A_cic))			
16		? TIMEOUT T7max		(F)	
17		A_PCO ? OTHERWISE CANCEL T7min, CANCEL T7max		(F)	
18		B_call_setup			
19		START T_B_STEP			
20		?TIMEOUT T_B_STEP		(P)	
21		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
22		B_call_release			
23		+B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
24		START T7min, START T7max			
25		? TIMEOUT T7min			
26		+B_RECEIVE(REL_r_AB_Default (TCV_B_cic))			
27		CANCEL T7max			
28		+B_SEND (RLC_m (TCV_B_cic))			
29		? TIMEOUT T7max		(F)	
30		B_PCO ? OTHERWISE CANCEL T7min, CANCEL T7max		(F)	

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Test Case Dynamic Behaviour

SPB

Implementation:

SPB

Timing diagram for the T7 module. The signals shown are IAM, ACM*, CPG*, REL, and RLC. The diagram illustrates the timing relationships between these signals and the T7 module. IAM is a pulse, ACM* and CPG* are active-low pulses, REL is a pulse, and RLC is a pulse. The diagram shows the relationship between these signals and the T7 module.

1. The stimulus ISUP will initiate a call set up to diverting user at IUT and expect to receive the indication 'call diversion may occur'.
2. Verdict is set by checking status on left PTC together with the receipt of the REL message.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_39_IUT_receives_no_ANM_from_forwarded_to_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT can divert a call and release the resources upon T9 timer expiry if no ANM is received from the forwarded to exchange. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.1.4.6 b) ; Table A 1 /Q.764 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+postamble			Sets final verdict
7		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
8		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			2.
9		A_call_release +A_RECEIVE (CPG_r_BA_With_cdiv_info_and_redirection_number (TCV_A_cic))			
10		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
11		START T9min, START T9max			
12		? TIMEOUT T9min			
13		+A_RECEIVE(REL_r_BA_Default (TCV_A_cic))			3.
14		CANCEL T9max			
15		+A_SEND (RLC_m (TCV_A_cic))			
16		? TIMEOUT T9max		(F)	
17		A_PCO ? OTHERWISE CANCEL T9min, CANCEL T9max		(F)	
18		B_call_setup START T_B_STEP			
19		?TIMEOUT T_B_STEP		(P)	
20		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
21		B_call_release +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
22		+B_SEND (ACM_s_BA_With_redirection_number_restriction(TCV_B_cic))			
23		START T9min, START T9max			
24		? TIMEOUT T9min			
25		+B_RECEIVE(REL_r_AB_Default (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
26		CANCEL T9max			
27		+B_SEND (RLC_m (TCV_B_cic))			
28		? TIMEOUT T9max		(F)	
29		B_PCO ? OTHERWISE CANCEL T9min, CANCEL T9max		(F)	
<p>Detailed Comments : SPC SPA (IUT) SPB</p> <pre> -----IAM-----> <-----ACM*----- CDmo <-----CPG*-----IAM-----> <-----CPG-----<-----ACM----- --T9-- <-----REL-----REL-----> -----RLC-----> <-----RLC----- : Implementation: SPC SPA (IUT) SPB -----IAM-----> <-----ACM*----- CDmo <-----CPG*-----IAM-----> <-----CPG-----<-----ACM----- --T9-- <-----REL-----REL-----> -----RLC-----> <-----RLC----- </pre> <hr/> <p>1. The stimulus ISUP will initiate a call set up to diverting user at IUT and expect to receive the indication 'call diversion may occur'.</p> <p>2. ACM subscriber free</p> <p>3. Verdict is set by checking status on left PTC together with the receipt of the REL message.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_40_a_IUT_releases_CFU_call_when_redirection_counter_is_maximum Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT will refuse any further external diversions and clear the call, if it is received with the redirection counter in the redirection information set to the maximum value, in case of CFU. The cause values shall be "call rejected" (21) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.2.2 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated CFU to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+postamble			Sets final verdict
		A_call_setup			
7		START T_A_STEP			
8		?TIMEOUT T_A_STEP		(P)	
9		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		A_call_release			
10		START T_A_STEP			
11		?TIMEOUT T_A_STEP		(P)	
12		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		B_call_setup			
13		+B_SEND (IAM_s_BA_With_redirection_info_redirection_counter_maximum (TCV_B_cic))			1.
		B_call_release			
14		+B_RECEIVE (REL_r_AB_Cause_21 (TCV_B_cic))			2.
15		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPA (IUT) SPB <-----IAM----- -----REL-----> <-----RLC----- Implementation: IUT SPB <-----IAM----- -----REL-----> <-----RLC----- <hr/> 1. IAM with redirection counter set to 5 (or TSP_max_div if not equal 5). 2. Call rejected – Case #21 for CFU.					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_40_b_IUT_releases_CFB_call_when_redirection_counter_is_maximum Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT will refuse any further external diversions and clear the call, if it is received with the redirection counter in the redirection information set to the maximum value, in case of CFB. The cause values shall be "user busy" (cause 17) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.2.2 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated CFB to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+postamble			Sets final verdict
		A_call_setup			
7		START T_A_STEP			
8		?TIMEOUT T_A_STEP		(P)	
9		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		A_call_release			
10		START T_A_STEP			
11		?TIMEOUT T_A_STEP		(P)	
12		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		B_call_setup			
13		+B_SEND (IAM_s_BA_With_redirection_info_redirection_counter_maximum (TCV_B_cic))			1.
		B_call_release			
14		+B_RECEIVE (REL_r_AB_Cause_17 (TCV_B_cic))			2.
15		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPA (IUT) SPB <-----IAM----- -----REL-----> <-----RLC----- Implementation: IUT SPB <-----IAM----- -----REL-----> <-----RLC----- <hr/> 1. IAM with redirection counter set to 5 (or TSP_max_div if not equal 5). 2. Call rejected – Case #17 for CFB.					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_40_c_IUT_releases_CD_immediate_response_call_when_redirection_counter_is_maximum Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT will refuse any further external diversions and clear the call, if it is received with the redirection counter in the redirection information set to the maximum value, in case of CD(i). The cause values shall be "no user responding" (cause 18) Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.2.2 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated CD(i) to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+postamble			Sets final verdict
		A_call_setup			
7		START T_A_STEP			
8		?TIMEOUT T_A_STEP		(P)	
9		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		A_call_release			
10		START T_A_STEP			
11		?TIMEOUT T_A_STEP		(P)	
12		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
		B_call_setup			
13		+B_SEND (IAM_s_BA-With_redirection_info_redirection_counter_maximum (TCV_B_cic))			1.
		B_call_release			
14		+B_RECEIVE (REL_r_AB_Cause_18 (TCV_B_cic))			2.
15		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPA (IUT) SPB <-----IAM----- -----REL-----> <-----RLC----- Implementation: IUT SPB <-----IAM----- -----REL-----> <-----RLC----- _____ 1. IAM with redirection counter set to 5 (or TSP_max_div if not equal 5). 2. Call rejected – Case #18 for CD(i).					

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Test Case Dynamic Behaviour
Detailed Comments : ...

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

-
1. IAM with redirection counter set to 5 (or TSP_max_div if not equal 5).
 2. Call rejected – Case #18 for CD(a,B).

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments** : ...

2. Call rejected – Case #19 for CFNR(B).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_41_a_Continue_providing_ringing_tone_in_the_diverting_exchange_redirection_counter_set_to_maximum_value Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Continue providing ringing tone in the diverting exchange – redirection counter set to maximum value To verify that the IUT will refuse any further (external or internal) diversions and continue providing ringing tone until the calling user clears the call (or timer T9 in OLE expires), if it is received with the redirection counter in the redirection information set to the maximum value, in case of CFNR(A) and CD(a,A). Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.2.2 /Q.732 Arrange the data in the IUT so that called user has activated diversion to an exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			Sets final verdict
2		CREATE (A_ACCESS_PTC:A_12_41_a_call, B_ISUP_PTC:B_12_41_a_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			
		A_12_41_a_call			
6		+A_access_RECEIVE_setup (TSV_CREF1)			
7		START TCFNR_min			
8		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
9		?TIMEOUT TCFNR_min			
10		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
11		+A_access_SEND_CALL_REL_DEFAULT			
		B_12_41_a_call			
12		+B_SEND (IAM_s_BA-With_redirection_info_redirection_counter_maxim um(TCV_B_cic))			
13		START T9min			
14		+B_RECEIVE (ACM_r_BA (TCV_B_cic))			
15		+ringing_tone			
16		?TIMEOUT T9min		(P)	
17		+B_SEND (REL_m (TCV_B_cic))			
18		+B_RECEIVE (RLC_m (TCV_B_cic))			
19		B_PCO ? OTHERWISE CANCEL T9min		(F)	
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that called user has activated diversion to an exchange. <div style="text-align: center;"> Case a) access SPA SPB <-----setup-----<-----IAM-----> -----ACM-----> ... ringing tone ... </div>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

T9

<-----REL-----

-----RLC----->

Implementation:

access

SPA

SPB

<-----setup-----

<-----IAM-----

|

-----ACM----->

|

... ringing tone ...

|

T9

<---disconnect-----

<-----REL-----

-----RLC----->

1. IAM with Redirection counter set to 5 (or TSP_max_div if not equal 5).

2. This timer simulates T9 at the controlling exchange.

3. Release the call with cause 16 – Normal call clearing (default).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_41_b_Continue_providing_ringing_tone_in_the_diverting_exchange_redirection_counter_set_to_maximum_value Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Continue providing ringing tone in the diverting exchange – redirection counter set to maximum value To verify that the IUT will refuse any further (external or internal) diversions and continue providing ringing tone until the calling user clears the call (or timer T9 in OLE expires), if it is received with the redirection counter in the redirection information set to the maximum value, in case of CFNR(A) and CD(a,A). Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.2.2 /Q.732 Arrange the data in the IUT so that called user has activated diversion to an exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_41_b_call, B_ISUP_PTC:B_12_41_b_call)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			Sets final verdict
		A_12_41_b_call			
6		+A_access_RECEIVE_setup (TSV_CREF1)			
7		START TCFNR_min			
8		[TSP_DSS1]			
9		(TCV_inv_id:=TSO_RANDOM_INVOKE_ID())			
10		A_ACCESS_PCO ! DL_DAT_RQ	access_send (facility_o_s(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,c_CallDefInv(TCV_inv_id,TSO_HEX_TO_NUM(TSP_NB_D))))	(P)	
11		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
12		?TIMEOUT TCFNR_min			
13		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
14		+A_access_SEND_CALL_REL_DEFAULT			
15		[TSP_PSEUDO]			
16		[TSP_MANUAL]			
17		+A_access_SEND (alert_o_s (1,TSV_CREF1))			
18		?TIMEOUT TCFNR_min			
19		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
20		+A_access_SEND_CALL_REL_DEFAULT			
		B_12_41_b_call			
21		+B_SEND (IAM_s_BA_With_redirection_info_redirection_counter_maximum(TCV_B_cic))			1.
22		START T9min			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+B_RECEIVE (ACM_r_BA (TCV_B_cic))			2.
24		+ringing_tone			
25		?TIMEOUT T9min			
26		+B_SEND (REL_m (TCV_B_cic))			
27		+B_RECEIVE (RLC_m (TCV_B_cic))			
28		B_PCO ? OTHERWISE CANCEL T9min		(F)	
Detailed Comments : <p>Pre-test conditions Arrange the data in the IUT so that called user has activated diversion to an exchange.</p> <p>Case b)</p> <pre> access SPA SPB <-----setup-----<-----IAM----- -----ACM-----> ... ringing tone ... T9 <-----REL----- -----RLC-----> </pre> <p>1. IAM with Redirection counter set to 5 (or TSP_max_div if not equal 5). 2. Release the call with cause 16 – Normal call clearing (default).</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_42_IUT_sets_the_required_propagation_delay_value_for_the_diverted_call Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the IUT can successfully divert a call and set the required propagation delay value on the outgoing circuit correctly. The value should be set to the received value plus the propagation delay for the outgoing route as if the IUT was an intermediate exchange. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.5.1.2 c) /Q.732 ; 2.6 /Q.764 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_PDC_delay (TCV_A_cic, '0001'O)) A_call_release			1.
12		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
13		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
14		+A_RECEIVE (ANM_r_BA_Check_call_history_information (TCV_A_cic))			
15		A_step3 +A_RECEIVE_CALL_REL			
16		B_call_setup			
17		START T_B_STEP			
18		?TIMEOUT T_B_STEP		(P)	
19		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
20		B_call_release +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_numbe r_as_allowed_and_propagation_delay ('**B'))			2.
21		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic)) +B_SEND (ANM_s_BA_CHInf (TCV_B_cic, TSO_INT_TO_OCTET(TSP_PDC_X,2)))			3.
22		B_step3 +B_SEND_CALL_REL			

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Test Case Dynamic Behaviour		
Detailed Comments : SPC	SPA (IUT)	SPB
<div>-----IAM(PDC=x)-----> <----ACM{CDmo/NoInd}-- ----IAM(PDC=x+d)----> (With RnInf,OriCdNb, RgNb) <-----CPG-----<-----ACM----- (RnNbRes)ringing tone..... <-----ANM-----<-----ANM(CHInf=x+d)---- : Implementation:</div>		
SPA	IUT	SPB
<div>-----IAM(PDC=x)-----> <----ACM{CDmo/NoInd}-- ----IAM(PDC=x+d)----> (With RnInf,OriCdNb, RgNb) <-----CPG-----<-----ACM----- (RnNbRes)ringing tone..... <-----ANM-----<-----ANM(CHInf=x+d)---- check_communication <-----REL-----<-----REL----- -----RLC-----> -----RLC-----></div>		
<div>1. The stimulus IAM contains an initial propagation delay value of x ms. 2. The received IAM should contain a propagation delay value increased by d ms. 3. Send an ANM with Call history information.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_43_a_IUT_passes_connected_and_generic_number_at_diverting_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the connected number and the additional connected number in the generic number received in an ANM or CON message are passed on unmodified at a diverting exchange. Note: The CON will be mapped to an ANM. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.6.3 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic)) A_call_release +A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic)) +A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic)) +A_RECEIVE (ANM_r_BA_National_connected_and_generic_number (TCV_A_cic)) A_step3 +A_RECEIVE_CALL_REL B_call_setup START T_B_STEP ?TIMEOUT T_B_STEP B_PCO ?OTHERWISE CANCEL T_B_STEP B_call_release +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B)) +B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic)) +B_SEND (ANM_s_BA_National_connected_and_generic_number (TCV_B_cic)) B_step3			1.
12					
13					
14					
15					
16					
17				(P)	
18				(F)	
19					
20					
21					2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA (IUT) SPB</p> <pre> -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (with RnInf, OriCdNb, RgNb) <---CPG----- <-----ACM----- RnNbResringing tone..... <---ANM----- <-----ANM----- ConNb, addConNb in GenNb : Implementation: SPC IUT SPB -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (with RnInf, OriCdNb, RgNb) <---CPG----- <-----ACM----- RnNbResringing tone..... <---ANM----- <-----ANM----- ConNb, addConNb in GenNb check_communication <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> <hr/> <p>1. The stimulus ISUP will initiate a call setup with the expected signalling information. 2. Send the ConNb and addConNb in GenNb from user at B.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_43_b_IUT_passes_connected_and_generic_number_at_diverting_exchange Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Verify that the connected number and the additional connected number in the generic number received in an ANM or CON message are passed on unmodified at a diverting exchange. Note: The CON will be mapped to an ANM. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.6.3 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_Called_party_number_with_diversion_facility (TCV_A_cic))			1.
12		A_call_release +A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
13		+A_RECEIVE (ANM_r_BA_With_redirection_number_restriction_with_default_connected_number_and_generic_number (TCV_A_cic))			
14		A_step3 +A_RECEIVE_CALL_REL			
15		B_call_setup START T_B_STEP			
16		?TIMEOUT T_B_STEP		(P)	
17		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
18		B_call_release +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed (**B))			
19		+B_SEND (CON_s_BA_With_redirection_number_restriction_with_default_connected_number_and_generic_number (TCV_B_cic))			2.
20		B_step3 +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB -----IAM----->					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ... <---ACM{CDmo/NoInd}-- -----IAM-----> (with RnInf, OriCdNb, RgNb) <---ANM----- <-----CON----- ConNb, addConNb in GenNb : Implementation: SPA IUT SPB -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (with RnInf, OriCdNb, RgNb) <---ANM----- <-----CON----- ConNb, addConNb in GenNb check_communication <-----REL-----<-----REL----- -----RLC-----> -----RLC-----> <hr/> 1. The stimulus ISUP will initiate a call setup with the expected signalling information. 2. Send the ConNb and addConNb in GenNb from user at B.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_44_IUT_diverts_calling_and_additional_calling_party_number Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the diverting exchange diverts the calling party number and the additional calling party number in the generic number. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.6.5/Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_divert, B_ISUP_PTC:B_call_divert)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_release, B_ISUP_PTC:B_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_Generic_number (TCV_A_cic)) A_call_divert			1.
12		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
13		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
14		+A_RECEIVE (ANM_m (TCV_A_cic))			
15		A_release +A_RECEIVE_CALL_REL			
16		B_call_setup START T_B_STEP			
17		?TIMEOUT T_B_STEP		(P)	
18		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
19		B_call_divert +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed_and_calling_and_generic_number ("**B))			
20		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		B_release +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB -----IAM-----> <---ACM{CDmo/NoInd}-----IAM-----> (With RnInf,OriCdNb,RgNb) <---CPG-----<---ACM----- RnNbRes					

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Test Case Dynamic Behaviour		
<div>Detailed Comments :ringing tone..... <-----ANM-----<-----ANM----- : Implementation: SPC SPA (IUT) SPB -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (With RnInf,OriCdNb,RgNb) <---CPG-----<---ACM----- RnNbRes ringing tone..... <-----ANM-----<-----ANM----- check_communication <-----REL-----<-----REL----- -----RLC-----> -----RLC-----> <hr/>1. The stimulus ISUP will initiate call setup with CgPN and addCgPN in GenNb. Note for the selection : Called party has to subscribe to CLIP, although diverted-to user beneficiates of the information.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_45_Call_diversion_interaction_with_CUG_CUG_call_not_diverted Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : Call diversion – interaction with CUG – CUG call not diverted <p>To verify that a CUG call with outgoing access not allowed to a non-CUG user who has activated diversion is not forwarded.</p>					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.6.5 /Q.732					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_12_45_call_setup, B_ISUP_PTC:B_12_45_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_idle			
5		+postamble			sets final verdict
6		A_12_45_call_setup START T_A_STEP			1. Verify that no message is sent through the exchange
7		? TIMEOUT T_A_STEP		(P)	
8		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
9		B_12_45_call_setup +B_SEND (IAM_s_BA_OptionalForwardCallInd_CUGCallInd_11_ISUPPr ef_10_nonCUG (TCV_B_cic))			2.
10		+B_RECEIVE (REL_r_CauseV_87 (TCV_B_cic))			3.
11		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : <p>Pre-test conditions</p> <pre> access SPA SPB <-----IAM (CUG)----- (-OA) -----REL(#87)-----> <-----RLC----- </pre> <p>Implementation:</p> <pre> access IUT SPB <-----IAM (CUG)----- (-OA) -----REL(#87)-----> <-----RLC----- </pre> <hr/> <p>1. No call set up should be observed on the access side. 2. Send an IAM with ISUP preference indicator in the FCI set to ISUP required all the way and CUG call indicator in the OFCI set to CUG call, outgoing access not allowed. 3. REL with cause #87 "User not member of CUG". See also CUG test case ISS_V_7_14</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_46_IUT_forwards_CUG_restrictions Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that a CUG call with outgoing access not allowed to a CUG member who has activated diversion, is successful and that the CUG restrictions are forwarded. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.6.7/Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange and has subscribed to CUG.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_OFCL_CUG_with_og_access_not_allowed (TCV_A_cic)) A_call_release +A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic)) +A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic)) +A_RECEIVE (ANM_m (TCV_A_cic))			1.
12		A_step3 +A_RECEIVE_CALL_REL			
13		B_call_setup START T_B_STEP			
14		?TIMEOUT T_B_STEP		(P)	
15		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
16		B_call_release +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_number_as_allowed_and_CUG_info (**B))			2.
17		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
18		+B_SEND (ANM_m (TCV_B_cic))			
19		B_step3 +B_SEND_CALL_REL			
20					
21					
22					
Detailed Comments : SPC SPA (IUT) SPB					

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Test Case Dynamic Behaviour

Detailed Comments : ...

-----IAM(CUG)-----> -----IAM(CUG)-----> (-OA)

:

Implementation:

SPA

IUT

SPB

-----IAM(CUG)-----> -----IAM(CUG)-----> (-OA)

<-----ACM----- <-----ACM-----

<-----CPG----- - <-----ANM-----

<-----ANM-----

.... check_communication

<-----REL----- <-----REL-----

-----RLC-----> -----RLC----->

-
1. Initiate a CUG call setup from SPC specifying a CUG interlock code. The CUG call is with outgoing access not allowed.
 2. CUGCI set to 'CUG call, outgoing access not allowed'.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_47_IUT_does_not_divert_called_party_subaddress Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the IUT does not divert the called party sub-address Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.6.17 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_diversion, B_ISUP_PTC:B_call_diversion)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_release, B_ISUP_PTC:B_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_With_subaddress (TCV_A_cic))			1.
12		A_call_diversion +A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
13		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
14		+A_RECEIVE (ANM_m (TCV_A_cic))			
15		A_release +A_RECEIVE_CALL_REL			
16		B_call_setup START T_B_STEP			
17		?TIMEOUT T_B_STEP		(P)	
18		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
19		B_call_diversion +B_RECEIVE_cic (IAM_r_AB_With_redirection_info_and_original_called_numbe r_as_allowed ("**B))			3.Received without subaddress
20		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		+B_RECEIVE_cic (IAM_r_AB_With_diverted_number_subaddress (TCV_B_cic))			2.Received with diverted number subaddress
23		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
24		+B_SEND (ANM_m (TCV_B_cic)) B_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
25		+B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA (IUT) SPB</p> <pre> -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (With RnInf,OriCdNb,RgNb) <-----CPG----- <---ACM----- RnNbResringing tone..... <-----ANM----- <-----ANM----- : Implementation: SPA IUT SPB -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (With RnInf,OriCdNb,RgNb) <-----CPG----- <---ACM----- RnNbResringing tone..... <-----ANM----- <-----ANM----- check_communication <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> <hr/> <p>1. The stimulus ISUP will initiate call set up with a called party sub-address. 2. If IUT diverts the called party sub-address its a 'fail'. 3. If the IUT does not divert the called party sub-address in the ATP, it's a 'pass'. 4. if the IUT changed the called party sub-address from TSP_Sub_A to TSP_Sub_B its a 'pass'.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_48_IUT_adds_diverted_to_party_subaddress Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that a new called party sub-address corresponding to the diverted to user shall be provided by the served user , at call diversion activation , and shall be included in the Access Transport parameter in the IAM sent on the diverted leg. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.6.17 /Q.732 PRE-TEST CONDITIONS : Arrange the data in the IUT so that called user has activated diversion to an external exchange and has subscribed to SUB.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
5		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+check_communication			
7		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			Sets final verdict
11		A_call_setup +A_SEND (IAM_s_AB_With_subaddress (TCV_A_cic)) A_call_release			1.
12		+A_RECEIVE (ACM_r_BA_With_OBCI_CDmo (TCV_A_cic))			
13		+A_RECEIVE (CPG_r_BA_With_alerting (TCV_A_cic))			
14		+A_RECEIVE (ANM_m (TCV_A_cic))			
15		A_step3 +A_RECEIVE_CALL_REL			
16		B_call_setup START T_B_STEP			
17		?TIMEOUT T_B_STEP		(P)	
18		B_PCO ?OTHERWISE CANCEL T_B_STEP		(F)	
19		B_call_release +B_RECEIVE_cic (IAM_r_AB_With_diverted_number_subaddress (TCV_B_cic))			2.Received with diverted number subaddress
20		+B_SEND (ACM_s_BA_With_redirection_number_restriction (TCV_B_cic))			
21		+B_SEND (ANM_m (TCV_B_cic))			
22		B_step3 +B_SEND_CALL_REL			
Detailed Comments : SPC SPA (IUT) SPB -----IAM----->					

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Test Case Dynamic Behaviour		
<div>Detailed Comments : ... <---ACM{CDmo/NoInd}-- -----IAM-----> (With RnInf,OriCdNb,RgNb) <---CPG----- <---ACM----- RnNbRes ringing tone..... <-----ANM----- <-----ANM----- : Implementation: SPC IUT SPB -----IAM-----> <---ACM{CDmo/NoInd}-- -----IAM-----> (With RnInf,OriCdNb,RgNb) <---CPG----- <---ACM----- RnNbRes ringing tone..... <-----ANM----- <-----ANM----- check_communication <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> <hr/>1. The stimulus ISUP will initiate call set up with a called party sub-address. 2. The IUT changed the called party sub-address from TSP_Sub_A to TSP_Sub_B.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_12_49_a_Call_diversion_interworking_with_other_networks Group : ISUP_Supplementary_Services/ISS_12_CDIV/ Purpose : To verify that the IUT is able to handle the call to other signalling systems according to the basic call procedures. If the ISDN user part preference indicator in the forward call indicators is set to "ISDN user part...: ...not required all the way' (01) then the call should be diverted ...preferred all the way' (00) then the call should be diverted ...required all the way' (10) then the call should be rejected /released. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.7 /Q.732; 2.1.1.1 /Q.764 PRE-TEST CONDITIONS : Arrange the data in the IUT so that the called user has activated diversion with a diverted-to number which is to be routed to another signalling system (TSP_NB_C_NON_ISUP). This non ISUP signalling system should be looped back so that the call is routed back to ISUP (See detailed comments).					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_release, B_ISUP_PTC:B_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB_isup_not_required (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_release			
12		+A_SEND_CALL_REL			
		B_call_setup			
13		+B_RECEIVE_cic (IAM_r_AB_interworking ("**B))			
14		+B_SEND (ACM_m (TCV_B_cic))			
15		+B_SEND (ANM_m (TCV_B_cic))			
		B_release			
16		+B_RECEIVE_CALL_REL			
Detailed Comments : SPC non-ISUP SPA SPB <-----IAM-----> <-----IAM-----> -----ACM-----> -----ACM-----> -----ANC-----> -----ANM-----> : 1. Assist a call set up from the UNI at SPB on a non-ISUP route. 2. Initiate a call set up specifying "ISDN user part not required all the way' in the FCI of the IAM. 3. The call should complete. Implementation: ----- A ISUP IUT NON ISUP IUT B ISUP !-----IAM----->!----->!-----IAM----->!					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div>!<-----ACM-----!<-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----!<-----ANM-----! check communication..... !<-----REL-----!<-----!<-----REL-----! !-----RLC----->!----->!-----RLC----->!</div></div>

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...</div> <div>.....ringing tone.....</div> <div>!<-----ANM-----!<-----ANM-----!</div> <div>.....check communication.....</div> <div>!<-----REL-----!<-----REL-----!</div> <div>!-----RLC----->!-----RLC----->!</div>

Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup,			
3		B_ISUP_PTC:B_call_setup)			
4		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
		+postamble			
		A_call_setup			
5		+A_SEND (IAM_s_AB_isup_required (TCV_A_cic))			
6		+A_RECEIVE (REL_m (TCV_A_cic))			
7		+A_SEND (RLC_m (TCV_A_cic))			
		B_call_setup			
8		START T_B_STEP			
9		? TIMEOUT T_B_STEP		(P)	
10		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	

A ISUP	IUT	NON ISUP	IUT	B ISUP
!-----IAM----->!		!		!
!<-----REL-----!		!		!
!-----RLC----->!		!		!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_1_Call_hold_after_answer_requested_by_the_local_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after answer, requested by the local user <p>To verify that a call can be placed on hold and can be retrieved again by the local user and that notifications are sent with CPG messages having the event indicator set to "progress".</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.1; 2.5.2.1.1.2 / Q.733 Arrange the data in the IUT so that the local user subscribes to the Call hold service					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_1_call_setup, B_ISUP_PTC:B_13_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_13_1_call_hold, B_ISUP_PTC:B_13_1_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_13_1_call_release, B_ISUP_PTC:B_13_1_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			
		A_13_1_call_setup			
12		+A_access_CALL_SETUP_BA_DEFAULT			
		A_13_1_call_hold			
13		+A_access_SEND (hold_o_s(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1))			1. Send a hold
14		+A_access_RECEIVE_dss1 (hold_ack_r(TSV_CREF1))			
15		+A_access_SEND (retrieve_o_s(1,TSV_CREF1))			2. Send a retrieve
16		+A_access_RECEIVE_dss1 (retrieve_ack_o_r(TSV_CREF1))			
		A_13_1_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_1_call_setup			
19		+B_CALL_SETUP_BA(IAM_o(TCV_B_cic),ACM_m(TCV_B_cic),ANM_m(TCV_B_cic))			
		B_13_1_call_hold			
20		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
21		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_retrieve (TCV_B_cic))			Receive a call retrieve
		B_13_1_call_release			
22		+B_RECEIVE_CALL_REL			

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Test Case Dynamic Behaviour		
<div>Detailed Comments :</div> <div>Pre-test conditions</div> <div>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</div>		
<div><div>accessSPA SPB</div><div><-----setup-----<-----IAM-----</div><div>-----alert----->-----ACM-----></div><div>... ringing tone ...</div><div>-----connect----->-----ANM-----></div><div>... check communication ...</div><div>-----hold----->-----CPG-----></div><div>-----retrieve----->-----CPG-----></div><div>... check communication ...</div><div>:</div></div>		
<div><div>Implementation</div><div>accessIUT SPB</div><div><-----setup-----<-----IAM-----</div><div>-----alert----->-----ACM-----></div><div>... ringing tone ...</div><div>-----connect----->-----ANM-----></div><div>... check communication ...</div><div>-----hold----->-----CPG-----></div><div>-----retrieve----->-----CPG-----></div><div>... check communication ...</div><div>-----disconnect----->-----REL-----></div><div><-----RLC-----</div></div>		
<div>1. The call is put on HOLD by the called party.</div> <div>2. The call is retrieved by the called party.</div>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_2_Call_hold_after_answer_requested_by_the_remote_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after answer, requested by the remote user <p>To verify that a call can be placed on hold and can be retrieved again by the remote user and that notifications are sent with CPG messages.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.1; 2.5.2.1.1.2 / Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_2_call_setup, B_ISUP_PTC:B_13_2_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_13_2_call_hold, B_ISUP_PTC:B_13_2_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_13_2_call_release, B_ISUP_PTC:B_13_2_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			
		A_13_2_call_setup			
12		+A_access_CALL_SETUP_BA_DEFAULT			
		A_13_2_call_hold			
13		+A_access_RECEIVE (hold_o_r (TSV_CREF1))			1.Receive a hold
14		+A_access_SEND_dss1 (hold_ack_s(TSV_CREF1))			
15		+A_access_RECEIVE (retrieve_o_r (TSV_CREF1))			2.Receive a retrieve
16		+A_access_SEND_dss1 (retrieve_ack_o_s(1,TSV_CREF1))			
		A_13_2_call_release			
17		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
18		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_2_call_setup			
19		+B_SEND(IAM_s_BA (TCV_B_cic))			
20		+B_RECEIVE (ACM_m (TCV_B_cic))			
21		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_13_2_call_hold			
22		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
23		+B_SEND (CPG_s_BA_Generic_notification_ind_retrieve (TCV_B_cic))			Send a call retrieve
		B_13_2_call_release			
24		+B_RECEIVE_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions

```

access          SPA          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
.. check communication ...
<-----hold----- <-----CPG-----
<-----retrieve----- <-----CPG-----
... check communication ...

```

:

Implementation

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
... ringing tone ...
-----connect-----> -----ANM----->
.. check communication ...
<-----hold----- <-----CPG-----
<-----retrieve----- <-----CPG-----
... check communication ...
-----disconnect-----> -----REL----->
                        <-----RLC-----

```

-
1. The call is put on HOLD by the remote user.
 2. The call is retrieved by the remote user.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_3_Call_hold_after_alerting_requested_by_the_local_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after alerting, requested by the local user <p>To verify that an outgoing call can be placed on HOLD after alerting has commenced and can be retrieved afterwards by the local user and that notifications are sent with CPG messages.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.2.1;2.5.2.1.1.1;2.5.2.1.1.2 /Q.733 Arrange the data in the IUT so that the local user subscribes for the Call hold service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_3_call_setup, B_ISUP_PTC:B_13_3_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_13_3_call_hold, B_ISUP_PTC:B_13_3_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_13_3_call_release, B_ISUP_PTC:B_13_3_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			
		A_13_3_call_setup			
12		+DSS1_Preamble			
13		+A_access_CALL_SETUP_TILL_ALERT_AB(setup_o_s(0,T SV_CREF1,TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_B),TSO_HEX_TO_OCTET(TSP_NB_B)),call_proce eding_o_r(TSV_CREF1), alert_o_r(TSV_CREF1))			
		A_13_3_call_hold			
14		+A_access_SEND (hold_o_s(TCV_flag_dss1,TSV_CREF1))			Send a hold
15		+A_access_RECEIVE_dss1 (hold_ack_r(TSV_CREF1))			
16		+A_access_RECEIVE (call_proceeding_o_r (TSV_CREF1))			Receive answer message
17		+A_access_SEND (retrieve_o_s (0,TSV_CREF1))			Send a retrieve
18		+A_access_RECEIVE_dss1 (retrieve_ack_o_r(TSV_CREF1))			
		A_13_3_call_release			
19		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
20		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_3_call_setup			
21		+B_RECEIVE_cic(IAM_r_AB (**B))			
22		+B_SEND (ACM_m (TCV_B_cic))			
		B_13_3_call_hold			
23		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
24		+B_SEND (ANM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
25		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_retrieve (TCV_B_cic)) B_13_3_call_release			Receive a call retrieve
26		+B_RECEIVE_CALL_REL			
<div>Detailed Comments :</div> <div>Pre-test conditions</div> <div>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</div> <div><div><div>accessSPA -----setup----->-----IAM-----> <-----alert-----<-----ACM----- ... ringing tone ... -----hold----->-----CPG-----> <-----answer-----<-----ANM----- -----retrieve----->-----CPG-----> ... check communication ... :</div><div>Implementation accessIUTSPB -----setup----->-----IAM-----> <-----alert-----<-----ACM----- ... ringing tone ... -----hold----->-----CPG-----> <-----answer-----<-----ANM----- -----retrieve----->-----CPG-----> ... check communication ... -----disconnect----->-----REL-----> <-----RLC-----></div></div><hr/></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_4_Call_hold_after_alerting_expiry_of_T9_while_the_call_is_on_hold Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after alerting, expiry of T9 while the call is on hold <p>To verify that a held call is released if it is not answered before expiry of T9 (waiting for ANM).</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.2.1; 2.9 /Q.733 Arrange the data in the IUT so that the local user subscribes to the Call hold service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_4_call_setup, B_ISUP_PTC:B_13_4_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_13_4_call_hold, B_ISUP_PTC:B_13_4_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_13_4_call_setup			
9		+A_access_CALL_SETUP_TILL_ALERT_AB(setup_o_s(0,TSV_CREF1,TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_B),TSO_HEX_TO_OCTET(TSP_NB_B)),call_proceeding_o_r(TSV_CREF1), alert_o_r(TSV_CREF1))			
		A_13_4_call_hold			
10		+A_access_SEND (hold_o_s(0,TSV_CREF1))			Send a hold
11		+A_access_RECEIVE_dss1 (hold_ack_r(TSV_CREF1))			
12		+A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			Receive a disconnect
13		+A_access_SEND_CALL_REL_DEFAULT			
		B_13_4_call_setup			
14		+B_RECEIVE_cic(IAM_r_AB (**B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
		B_13_4_call_hold			
16		START T9min, START T9max			
17		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			1.Receive a call hold
18		? TIMEOUT T9min CANCEL T9max			
19		+B_RECEIVE (REL_r_AB_Cause_19 (TCV_B_cic))			2.Receive a call release
20		+B_SEND (RLC_m (TCV_B_cic))			
21		? TIMEOUT T9max		(F)	
22		+B_SEND_CALL_REL			
23		+B_RECEIVE(REL_m(TCV_B_cic))			
24		CANCEL T9min, CANCEL T9max		(F)	
25		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions					

Continued on next page

Test Case Dynamic Behaviour

Arrange the data in the IUT so that the local user subscribes to the Call hold service.

```

Implementation
access          IUT          SPB
-----setup-----> -----IAM----->
<-----alert-----<-----ACM-----
          ... ringing tone ...
-----hold-----> -----CPG----->
<-----disc-----> -----REL----->
          <-----RLC-----

```

1. Call HOLD received.
2. Cause #19: No answer from user (user alerted).

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_5_Call_hold_after_IAM_local_user_requests_HOLD_for_outgoing_call Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after IAM, local user requests HOLD for outgoing call <p>To verify that an outgoing call can be placed on hold and can be retrieved afterwards by the local user and that notifications are sent with CPG messages.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.2.1; 2.5.2.1.1.1; 2.5.2.1.1.2 /Q.733 Arrange the data in the IUT so that the local user subscribes to the Call hold service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_5_call_setup_with_hold, B_ISUP_PTC:B_13_5_call_setup_with_hold)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_13_5_call_setup_compl, B_ISUP_PTC:B_13_5_call_setup_compl)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+ringing_tone			
8		CREATE (A_ACCESS_PTC:A_13_5_call_connect, B_ISUP_PTC:B_13_5_call_connect)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_communication			
11		CREATE (A_ACCESS_PTC:A_13_5_call_release, B_ISUP_PTC:B_13_5_call_release)			
12		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
13		+check_idle			
14		+postamble			
		A_13_5_call_setup_with_hold			
15		+DSS1_Preamble			
16		+A_access_SEND(setup_o_s (TCV_flag_dss1,TSV_CREF1,TSV_BCHNUM1,TSO_CALC_NUM_LENGTH(TSP_NB_B),TSO_HEX_TO_OCTET(TSP_NB_B)))			
17		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			Send a hold
18		+A_access_RECEIVE_dss1 (hold_ack_r(TSV_CREF1))			
19		+A_access_SEND (retrieve_o_s (TCV_flag_dss1,TSV_CREF1))			Send a retrieve
20		+A_access_RECEIVE_dss1 (retrieve_ack_o_r(TSV_CREF1))			
		A_13_5_call_setup_compl			
21		+A_access_RECEIVE (alert_o_r (TSV_CREF1))			
		A_13_5_call_connect			
22		+A_access_RECEIVE (connect_o_r(TSV_CREF1))			
		A_13_5_call_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
24		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_5_call_setup_with_hold			
25		+B_RECEIVE_cic(IAM_r_AB (*B))			Receive a call hold
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			
27		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_retrieve (TCV_B_cic))			Receive a call retrieve
		B_13_5_call_setup_compl			
28		+B_SEND (ACM_m (TCV_B_cic))			
		B_13_5_call_connect			
29		+B_SEND (ANM_m (TCV_B_cic))			
		B_13_5_call_release			
30		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the local user subscribes to the Call hold service.					
<pre> access SPA SPB -----setup-----> -----IAM-----> -----hold-----> -----CPG-----> . -----retrieve-----> -----CPG-----> ... check communication ... <-----alert-----<-----ACM----- ... ringing tone ... <-----connect-----<-----ANM----- ... check communication ... : Implementation access IUT SPB -----setup-----> -----IAM-----> -----hold-----> -----CPG-----> . -----retrieve-----> -----CPG-----> ... check communication ... <-----alert-----<-----ACM----- ... ringing tone ... <-----connect-----<-----ANM----- ... check communication ... -----disconnect-----> -----REL-----> <-----RLC-----> </pre>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_6_a_Call_hold_after_answer_by_calling_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : To verify that a transit call can be placed on hold and can be retrieved again by the calling party and that the indications are passed on transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_SEND (CPG_s_AB_Generic_notification_ind_hold (TCV_A_cic))			Send a hold
13		+A_SEND (CPG_s_AB_Generic_notification_ind_retrieve (TCV_A_cic))			Send a retrieve
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
19		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_retrieve (TCV_B_cic))			Receive a call retrieve
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... -----CPG-----> -----CPG-----> hold -----CPG-----> -----CPG-----> retrieve ... check communication ...					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

1. The call is put on HOLD by the calling user.
2. The call is retrieved by the calling user.

Implementation:

```
-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....
!-----CPG----->!-----CPG----->! HOLD
!-----CPG----->!-----CPG----->! RETRIEVE

.....check communication.....
!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_6_b_Call_hold_after_answer_by_called_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : To verify that a transit call can be placed on hold and can be retrieved again by the served user (called party) and that the indications are passed on transparently. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (ANM_m (TCV_A_cic))			
12		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_hold (TCV_A_cic))			Receive a hold
13		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_retrieve (TCV_A_cic))			Receive a retrieve
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (ANM_m (TCV_B_cic))			
18		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
19		+B_SEND (CPG_s_BA_Generic_notification_ind_retrieve (TCV_B_cic))			Send a call retrieve
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... <-----CPG----- <-----CPG----- hold <-----CPG----- <-----CPG----- retrieve ... check communication ...					

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Test Case Dynamic Behaviour

Detailed Comments : ...

1. The call is put on HOLD by the called user.
2. The call is retrieved by the called user.

Implementation:

```

-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

.....ringing tone.....
!<-----ANM-----!<-----ANM-----!

.....check communication.....
!<-----CPG-----!<-----CPG-----! HOLD
!<-----CPG-----!<-----CPG-----! RETRIEVE

.....check communication.....
!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

```


Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_7_a_Call_hold_after_alerting_by_calling_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : To verify that a transit call can be placed on hold after alerting and can be retrieved afterwards and that the indications are passed on transparently by the IUT. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_SEND (CPG_s_AB_Generic_notification_ind_hold (TCV_A_cic))			Send a hold
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		+A_SEND (CPG_s_AB_Generic_notification_ind_retrieve (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
18		+B_SEND (ANM_m (TCV_B_cic))			
19		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_retrieve (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... -----CPG-----> -----CPG-----> hold <-----ANM----- <-----ANM-----check communication..... -----CPG-----> -----CPG-----> retrieve ... check communication ...					

Continued on next page

Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

1. The call is put on HOLD by the calling user.
2. The call is retrieved by the calling user.

Implementation:

```

-----
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----!

          .....ringing tone.....
!-----CPG----->!-----CPG----->!
!<-----ANM-----!<-----ANM-----!

          .....check communication.....

!-----CPG----->!-----CPG----->! RETRIEVE

          .....check communication.....
!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_7_b_Call_hold_after_alerting_by_called_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : To verify that a transit call can be placed on hold after alerting has commenced at the called party and can be retrieved afterwards and that the indications are passed on transparently by the IUT. Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_m (TCV_A_cic))			
11		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_hold (TCV_A_cic))			Receive a hold
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_retrieve (TCV_A_cic))			
		A_call_release			
14		+A_RECEIVE_CALL_REL			
		B_call_setup			
15		+B_RECEIVE_cic (IAM_r_AB (**B))			
16		+B_SEND (ACM_m (TCV_B_cic))			
17		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
18		+B_SEND (ANM_m (TCV_B_cic))			
19		+B_SEND (CPG_s_BA_Generic_notification_ind_retrieve (TCV_B_cic))			
		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----CPG----- <-----CPG----- hold <-----ANM----- <-----ANM-----check communication..... <-----CPG----- <-----CPG----- retrieve ... check communication ...					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

1. The call is put on HOLD by the calling user.
2. The call is retrieved by the calling user.

Implementation:

```
-----  
TTCN          IUT          TTCN  
!-----IAM----->!-----IAM----->!  
!<-----ACM-----!<-----ACM-----!  
  
          .....ringing tone.....  
!<-----CPG-----!<-----CPG-----!  
!<-----ANM-----!<-----ANM-----!  
  
          .....check communication.....  
  
!<-----CPG-----!<-----CPG-----! RETRIEVE  
  
          .....check communication.....  
!<-----REL-----!<-----REL-----!  
!-----RLC----->!-----RLC----->!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_8_Call_hold_after_answer_interworking_with_PSTN Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after answer, interworking with PSTN <p>To verify that an in-band indication is sent to the PSTN subscriber if a call is placed on hold by the ISDN subscriber.</p> Configuration : MTC_and_ISUP_and_PSTN_PTCs Default : Comments : ISUP 97 reference2.7 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_13_8_call_setup, B_ISUP_PTC:B_13_8_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_13_8_call_hold, B_ISUP_PTC:B_13_8_call_hold)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		CREATE (A_ISUP_PTC:A_13_8_call_release, B_ISUP_PTC:B_13_8_call_release)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			
		A_13_8_call_setup			
11		+A_PSTN_CALL_SETUP			
		A_13_8_call_hold			
12		+A_PSTN_CALL_HOLD_in_band_ind			1.
		A_13_8_call_release			
13		+A_PSTN_CALL_REL			
		B_13_8_call_setup			
14		+B_RECEIVE_cic(IAM_r_AB (**B))			
15		+B_SEND (ACM_m (TCV_B_cic))			
16		+B_SEND (ANM_m (TCV_B_cic))			
		B_13_8_call_hold			
17		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
		B_13_8_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions <div style="text-align: center;"> PSTN SPA SPB -----> -----IAM-----> <-----ACM----- ... ringing tone ... <-----ANM----- ... check communication ... </div>					

Continued on next page

Test Case Dynamic Behaviour

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_9_Call_hold_after_answer_release_of_the_call_by_the_local_served_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after answer, release of the call by the local served user <p>To verify that a call in the held state can be released by the user who activated the Call hold service.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference2.3 /Q.764 Arrange the data in the IUT so, that the local user subscribes to the Call hold service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_9_call_setup, B_ISUP_PTC:B_13_9_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_13_9_call_hold, B_ISUP_PTC:B_13_9_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_no_through_connection			
8		CREATE (A_ACCESS_PTC:A_13_9_disconnect, B_ISUP_PTC:B_13_9_disconnect)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+check_idle			
11		+postamble			
		A_13_9_call_setup			
12		+A_access_CALL_SETUP_BA_DEFAULT			
		A_13_9_call_hold			
13		+A_access_SEND (hold_o_s (1.Send a hold
		TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1))			
14		+A_access_RECEIVE_dss1 (hold_ack_r(TSV_CREF1))			
		A_13_9_disconnect			
15		+A_access_SEND (disconnect_without_component			Send a
		(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			disconnect
16		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_9_call_setup			
17		+B_SEND(IAM_s_BA (TCV_B_cic))			
18		+B_RECEIVE (ACM_m (TCV_B_cic))			
19		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_13_9_call_hold			
20		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold			Receive a call
		(TCV_B_cic))			hold
		B_13_9_disconnect			
21		+B_RECEIVE (REL_o (TCV_B_cic))			Receive a call
					release
22		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the local user subscribes to the Call hold service.					

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Test Case Dynamic Behaviour

```

access          SPA          SPB
<-----setup-----<-----IAM-----
-----alert----->-----ACM----->
... ringing tone ...
-----connect----->-----ANM----->
... check communication ...
-----hold----->-----CPG----->
... check no through-connection ...
-----disc----->-----REL----->

```

```

Implementation
access                IUT                                SPB

<-----setup-----<-----IAM-----
-----alert----->-----ACM----->
... ringing tone ...
-----connect----->-----ANM----->
... check communication ...
-----hold----->-----CPG----->
... check no through-connection ...
-----disc----->-----REL----->
                        <-----RLC-----

```

1. The call is put on HOLD by the called party.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_10_Call_hold_after_answer_release_of_the_call_by_the_nonserved_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after answer, release of the call by the non-served user To verify that a call in the held state can be released by the user who did not activate the Call hold service.					
Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference2.3 /Q.764					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_10_call_setup, B_ISUP_PTC:B_13_10_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ACCESS_PTC:A_13_10_call_hold_and_disconnect, B_ISUP_PTC:B_13_10_call_hold_and_disconnect)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
9		A_13_10_call_setup +A_access_CALL_SETUP_BA_DEFAULT A_13_10_call_hold_and_disconnect			
10		+A_access_RECEIVE (hold_o_r (TSV_CREF1))			1. Send a hold
11		+A_access_SEND_dss1 (hold_ack_s(TSV_CREF1))			
12		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1) ,TSV_CREF1,16))			Send a disconnect
13		+A_access_RECEIVE_CALL_REL_DEFAULT B_13_10_call_setup			
14		+B_SEND(IAM_s_BA (TCV_B_cic))			
15		+B_RECEIVE (ACM_m (TCV_B_cic)) B_13_10_call_hold_and_disconnect			
16		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
17		+B_RECEIVE (REL_r_AB_Default (TCV_B_cic))			Receive a call release
18		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions <div style="text-align: center;"> access SPA SPB <-----setup-----<-----IAM----- -----alert-----> -----ACM-----> ... ringing tone ... -----connect-----> -----ANM-----> </div>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

... check communication ...
<-----hold-----<-----CPG-----
-----disc-----> -----REL----->

Implementation

access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----alert-----	> -----ACM-----	
	... ringing tone ...	
-----connect-----	> -----ANM-----	
	... check communication ...	
<-----hold-----	<-----CPG-----	
-----disc-----	> -----REL-----	
	<-----RLC-----	

1. The call is put on HOLD by the called party.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_11_Call_hold_after_alerting_release_of_the_call_by_the_local_served_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after alerting, release of the call by the local served user <p>To verify that a held call can be released by the user who activated the Call hold service without retrieving the call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference2.3 /Q.764 Arrange the data in the IUT so that the local user subscribes to the Call hold service.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_11_call_setup, B_ISUP_PTC:B_13_11_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_13_11_call_hold, B_ISUP_PTC:B_13_11_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			
		A_13_11_call_setup			
9		+DSS1_Preamble			
10		+A_access_CALL_SETUP_TILL_ALERT_BA(TSV_CREF1,al ert_o_s(1,TSV_CREF1))			
		A_13_11_call_hold			
11		+A_access_SEND (hold_o_s (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1))			Send a hold
12		+A_access_RECEIVE_dss1 (hold_ack_r(TSV_CREF1))			
13		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
14		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_11_call_setup			
15		+B_SEND(IAM_s_BA (TCV_B_cic))			
16		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_13_11_call_hold			
17		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
18		+B_RECEIVE (REL_r_AB_Default (TCV_B_cic))			Receive a call release
19		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the local user subscribes to the Call hold service. <div> <div>access</div> <div>SPA</div> <div>SPB</div> </div> <div> <div><-----setup-----</div> <div><-----IAM-----</div> </div> <div> <div>-----alert-----></div> <div>-----ACM-----></div> </div>					

Continued on next page

*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

... ringing tone ...
-----hold-----> -----CPG----->
-----disc-----> -----REL----->

Implementation

access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
	... ringing tone ...	
-----hold----->	-----CPG----->	
-----disc----->	-----REL----->	
	<-----RLC-----	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_13_12_Call_hold_after_alerting_requested_by_the_remote_user Group : ISUP_Supplementary_Services/ISS_13_HOLD/ Purpose : Call hold after alerting, requested by the remote user <p>To verify that an incoming call can be placed on hold and can be retrieved afterwards by the remote user.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.2.1; 2.5.2.5.1 / Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_13_12_call_setup, B_ISUP_PTC:B_13_12_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+ringing_tone			
5		CREATE (A_ACCESS_PTC:A_13_12_call_hold, B_ISUP_PTC:B_13_12_call_hold)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_13_12_call_release, B_ISUP_PTC:B_13_12_call_release)			
8		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
9		+check_idle			
10		+postamble			
		A_13_12_call_setup			
11		+A_access_CALL_SETUP_TILL_ALERT_BA(TSV_CREF1,aler t_o_s(1,TSV_CREF1))			
		A_13_12_call_hold			
12		+A_access_RECEIVE (hold_o_r (TSV_CREF1))			Receive a hold
13		+A_access_SEND_dss1(hold_ack_s(TSV_CREF1))			
14		+A_access_RECEIVE (retrieve_o_r (TSV_CREF1))			Receive a retrieve
15		+A_access_SEND_dss1 (retrieve_ack_o_s(1,TSV_CREF1))			
		A_13_12_call_release			
16		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
17		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_13_12_call_setup			
18		+B_SEND(IAM_s_BA (TCV_B_cic))			
19		+B_RECEIVE (ACM_m (TCV_B_cic))			
		B_13_12_call_hold			
20		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
21		+B_SEND (RES_o (TCV_B_cic))			Send a call retrieve
		B_13_12_call_release			
22		+B_RECEIVE_CALL_REL			

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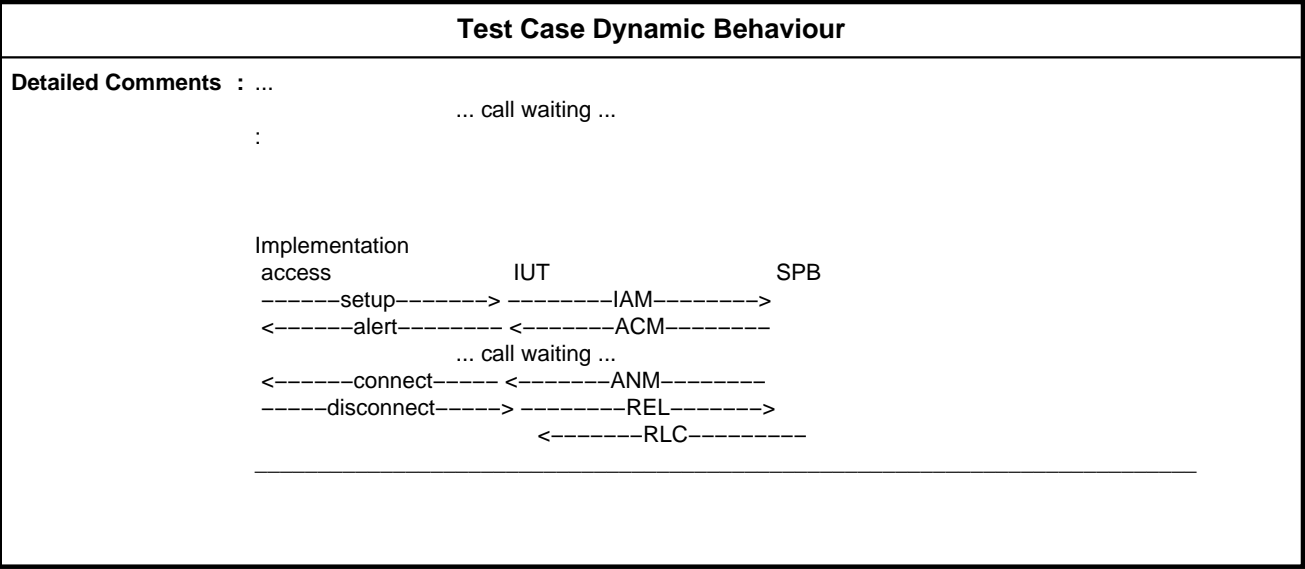
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Test Case Dynamic Behaviour		
Detailed Comments :		
Pre-test conditions		
access	SPA	SPB
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
... ringing tone ...		
<-----hold-----	<-----CPG-----	
<-----retrieve-----	<-----RES-----	
Implementation		
access	IUT	SPB
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
... ringing tone ...		
<-----hold-----	<-----CPG-----	
<-----retrieve-----	<-----RES-----	
-----disconnect----->	-----REL----->	
	<-----RLC-----	
<hr/>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_1_Call_waiting_indication_in_ACM Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : Call waiting indication in ACM <p>To verify that a call can be successfully established if the ACM indicates that it is a waiting call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference1.5.2.1.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_14_1_call_setup, B_ISUP_PTC:B_14_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_call_waiting			
5		CREATE (A_ACCESS_PTC:A_14_1_call_release, B_ISUP_PTC:B_14_1_call_release)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_14_1_call_setup			
9		+DSS1_Preamble			
10		+A_access_SEND (setup_no_calling_party_number(0,TSV_CREF1))			
11		+A_access_RECEIVE_dss1(call_proceeding_o_r(TSV_CREF1))			
12		+A_access_RECEIVE (alert_o_r_waiting_call (TSV_CREF1))			Receive a call waiting ind.
13		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_14_1_call_release			
14		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1), TSV_CREF1,16))			Send a disconnect
15		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_14_1_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB (**B))			
17		+B_SEND (ACM_s_BA_Generic_notification_ind_waiting (TCV_B_cic))			Send a call waiting ind.
18		+B_SEND (ANM_m (TCV_B_cic))			
		B_14_1_call_release			
19		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions					
<pre> access SPA SPB -----setup-----> -----IAM-----> <-----alert-----< -----ACM----- </pre>					

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Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_2_Call_waiting_indication_in_CPG Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : Call waiting indication in CPG <p>To verify that a call can be successfully established if the CPG indicates that it is a waiting call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.1.1 /Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:A_14_2_call_setup, B_ISUP_PTC:B_14_2_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		+check_call_waiting			
5		CREATE (A_ACCESS_PTC:A_14_2_call_waiting, B_ISUP_PTC:B_14_2_call_waiting)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		CREATE (A_ACCESS_PTC:A_14_2_call_connect, B_ISUP_PTC:B_14_2_call_connect)			
8		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
9		+check_communication			
10		CREATE (A_ACCESS_PTC:A_14_2_call_release, B_ISUP_PTC:B_14_2_call_release)			
11		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
12		+check_idle			
13		+postamble			Sets final verdict
		A_14_2_call_setup			
14		+DSS1_Preamble			
15		+A_access_SEND (setup_no_calling_party_number(0,TSV_CREF1))			
16		+A_access_RECEIVE_dss1(call_proceeding_o_r(TSV_CREF1))			
17		+A_RECEIVE (alert_o_r (TSV_CREF1))			Receive an alert with no notif. indication
		A_14_2_call_waiting			
18		+A_access_RECEIVE (alert_o_r_waiting_call (TSV_CREF1))			Receive a call waiting ind.
		A_14_2_call_connect			
19		+A_access_RECEIVE (connect_o_r (TSV_CREF1))			
		A_14_2_call_release			
20		+A_access_SEND (disconnect_without_component (TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF1,16))			Send a disconnect
21		+A_access_RECEIVE_CALL_REL_DEFAULT			
		B_14_2_call_setup			
22		+B_RECEIVE_cic (IAM_r_AB (*'B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+B_SEND (ACM_s_BA_BCI_called_status_no_indication (TCV_B_cic))			
24		B_14_2_call_waiting			
25		+B_SEND (CPG_s_BA_Generic_notification_ind_waiting (TCV_B_cic))			
26		B_14_2_call_connect			
		+B_SEND (ANM_m (TCV_B_cic))			
		B_14_2_call_release			
		+B_RECEIVE_CALL_REL			
Detailed Comments : <p>Pre-test conditions</p> <pre> sequenceDiagram participant SPA participant SPB SPA->>SPB: setup SPB-->>SPA: alert SPA->>CPG: CPG SPA-->>SPA: ... call waiting ... </pre> <p>Implementation</p> <pre> sequenceDiagram participant IUT participant SPB IUT->>SPB: setup SPB-->>IUT: alert IUT->>CPG: CPG IUT-->>IUT: ... call waiting ... IUT->>ANM: ANM IUT->>REL: REL IUT->>RLC: RLC </pre>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_3_Call_waiting_indication_in_ACM Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : To verify that a transit call can be successfully established if ACM indicates that it is a waiting call Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.5.2.2.1;1.5.2.3.1;1.5.2.4.1/Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup			
10		+A_SEND (IAM_s_AB (TCV_A_cic))			
11		+A_RECEIVE (ACM_r_BA_Generic_notification_ind_waiting (TCV_A_cic))			Receive a hold
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
13		A_call_release			
14		+A_RECEIVE_CALL_REL			
15		B_call_setup			
16		+B_RECEIVE_cic (IAM_r_AB (**B))			
17		+B_SEND (ACM_s_BA_Generic_notification_ind_waiting (TCV_B_cic))			Send a call hold
18		+B_SEND (ANM_m (TCV_B_cic))			
19		B_call_release			
20		+B_SEND_CALL_REL			
Detailed Comments : SPC SPA SPB <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... call waiting ... 1. The call waiting indication is sent in ACM Implementation: ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! !<-----ACM-----!<-----ACM-----! call waiting !<-----ANM-----!<-----ANM-----!</pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
check communication.....
	!<-----REL-----!<-----REL-----!
	!-----RLC----->!-----RLC----->!

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_4_Call_waiting_indication_in_CPG Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : To verify that a call can be successfully established if CPG indicates that it is a waiting call Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 1.5.2.2.1;1.5.2.3.1;1.5.2.4.1/Q.733					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
		A_call_setup			
9		+A_SEND (IAM_s_AB (TCV_A_cic))			
10		+A_RECEIVE (ACM_r_BA_BCI_called_status_no_indication (TCV_A_cic))			Receive an ACM with called party status in backward call indicator as no indication
11		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_waiting (TCV_A_cic))			
12		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_call_release			
13		+A_SEND_CALL_REL			
		B_call_setup			
14		+B_RECEIVE_cic (IAM_r_AB (**B))			
15		+B_SEND (ACM_s_BA_BCI_called_status_no_indication (TCV_B_cic))			
16		+B_SEND (CPG_s_BA_Generic_notification_ind_waiting (TCV_B_cic))			Send a call waiting
17		+B_SEND (ANM_m (TCV_B_cic))			
		B_call_release			
18		+B_RECEIVE_CALL_REL			
Detailed Comments : SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- (No Ind) <-----CPG----- <-----CPG----- (call waiting)					
1. The call waiting indication is sent in CPG					
Implementation: -----					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments :** ...

```
TTCN          IUT          TTCN
!-----IAM----->!-----IAM----->!
!<-----ACM-----!<-----ACM-----! (No Ind)
!<-----CPG-----!<-----CPG-----!
..... call waiting .....

!<-----ANM-----!<-----ANM-----!

.....check communication.....
!-----REL----->!-----REL----->!
!<-----RLC-----!<-----RLC-----!
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_5_Call_waiting_indication_in_ACM_or_CPG Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : Call waiting indication in ACM or CPG <p>To verify that a call can be successfully established if the user has subscribed to the call waiting service (with notification) and if he is currently busy, but answers the waiting call. The indication shall be sent either in an ACM or a CPG.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 /Q.733 Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		+set_B_channels_busy			1.
3		CREATE (A_ACCESS_PTC:A_14_5_call_setup, B_ISUP_PTC:B_14_5_call_setup)			
4		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
5		CREATE (A_ACCESS_PTC:A_14_5_call_waiting, B_ISUP_PTC:B_14_5_call_waiting)			
6		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
7		+check_communication			
8		CREATE (A_ACCESS_PTC:A_14_5_disconnect, B_ISUP_PTC:B_14_5_disconnect)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+set_idle_B_channels			4.
11		+postamble			
		A_14_5_call_setup			
12		+A_access_RECEIVE_setup_no_channel(TSV_CREF3)			
		A_14_5_call_waiting			
13		+A_access_SEND (alert_o_s(1,TSV_CREF3))			
14		+free_B_channel(TSV_CREFREL)			
15		+A_access_SEND(connect_o_s(1,TSV_CREF3))			
16		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF3))			
		A_14_5_disconnect			
17		+A_access_RECEIVE(disconnect_o_r (TSV_CREF3))			Send a disconnect
18		+A_access_SEND_CALL_REL_DEFAULT			
		B_14_5_call_setup			
19		+B_SEND(IAM_s_BA (TCV_B_cic))			
		B_14_5_call_waiting			
20		+B_RECEIVE_ONE_OR_TWO (ACM_r_AB_Generic_notification_ind_waiting (TCV_B_cic), ACM_r_AB (TCV_B_cic),CPG_r_AB_Generic_notification_ind_waiting (TCV_B_cic))			2–3. Receive a call waiting ind.
21		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_14_5_disconnect			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
22		+B_SEND_CALL_REL			Receive a call release
<div>Detailed Comments :</div> <div>Pre-test conditions</div> <div>Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.</div> <div><div><div>access</div><div>SPA</div><div>SPB</div></div><div><-----setup----- <-----IAM-----]</div><div>-----alert-----> -----ACM----->] repeat in order to</div><div>-----connect-----> -----ANM----->] keep all B-channels busy</div><div>... check communication ...</div><div><-----setup----- <-----IAM-----</div><div>(no channel)</div><div>-----alert-----> -----ACM-----> ... call waiting ...</div><div>(-----CPG-----> ... call waiting ...)</div><div>-----connect-----> -----ANM-----></div><div>... check communication ...</div><div><-----disc----- <-----REL-----</div><div>-----RLC-----></div><div>:</div></div> <div><div>Implementation</div><div><div>access</div><div>IUT</div><div>SPB</div></div><div><-----setup----- <-----IAM-----]</div><div>-----alert-----> -----ACM----->] repeat in order to</div><div>-----connect-----> -----ANM----->] keep all B-channels busy</div><div>... check communication ...</div><div><-----setup----- <-----IAM-----</div><div>(no channel)</div><div>-----alert-----> -----ACM-----> ... call waiting ...</div><div>(-----CPG-----> ... call waiting ...)</div><div>-----connect-----> -----ANM-----></div><div>... check communication ...</div><div><-----disc----- <-----REL-----</div><div>-----RLC-----></div><div>:</div></div> <div><div>1. Set up calls on every B-channel busy.</div><div>2. Call waiting indication in ACM.</div><div>3. Call waiting indication in CPG.</div><div>4. Release the calls in order to get an idle state.</div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_6_Call_waiting_without_notification Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : Call waiting without notification <p>To verify that a call can be successfully established if the user has subscribed to the call waiting service (without notification) and if he is currently busy, but answers the waiting call. No indication shall be sent to the calling user.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.1 /Q.733 Arrange the data in the IUT so that the called user subscribes to the call waiting service without the notification option.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		+set_B_channels_busy			1.
3		CREATE (A_ACCESS_PTC:A_14_6_call_setup, B_ISUP_PTC:B_14_6_call_setup)			
4		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
5		+check_no_channel			
6		CREATE (A_ACCESS_PTC:A_14_6_call_waiting, B_ISUP_PTC:B_14_6_call_waiting)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+check_communication			
9		CREATE (A_ACCESS_PTC:A_14_6_disconnect, B_ISUP_PTC:B_14_6_disconnect)			
10		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
11		+set_idle_B_channels			3.
12		+postamble			
		A_14_6_call_setup			
13		+A_access_RECEIVE_setup_no_channel(TSV_CREF3)			
		A_14_6_call_waiting			
14		+A_access_SEND (alert_o_s(1,TSV_CREF3))			
15		+free_B_channel(TSV_CREFREL)			
16		+A_access_SEND(connect_o_s(1,TSV_CREF3))			
17		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF3))			
		A_14_6_disconnect			
18		+A_access_RECEIVE(disconnect_o_r (TSV_CREF3))			Receive a disconnect
19		+A_access_SEND_CALL_REL_DEFAULT			
		B_14_6_call_setup			
20		+B_SEND(IAM_s_BA (TCV_B_cic))			
		B_14_6_call_waiting			
21		+B_RECEIVE (ACM_m (TCV_B_cic))			2. .
22		+B_RECEIVE (ANM_m (TCV_B_cic))			
		B_14_6_disconnect			
23		+B_SEND_CALL_REL			Send a call release

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Test Case Dynamic Behaviour

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT so that the called user subscribes to the call waiting service without the notification option.

```

access          SPA          SPB
<-----setup----- <-----IAM----- ]
-----alert-----> -----ACM-----> ] repeat in order to
-----connect-----> -----ANM-----> ] keep all B-channels busy
      ... check communication ...
<-----setup----- <-----IAM-----
              (no channel)
-----alert-----> -----ACM----->
-----conn-----> -----ANM----->
      ... check communication ...
<-----disc----- <-----REL-----
              -----RLC----->
:

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Implementation

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access          IUT          SPB
<-----setup----- <-----IAM----- ]
-----alert-----> -----ACM-----> ] repeat in order to
-----connect-----> -----ANM-----> ] keep all B-channels busy
      ... check communication ...
<-----setup----- <-----IAM-----
              (no channel)
-----alert-----> -----ACM----->
-----conn-----> -----ANM----->
      ... check communication ...
<-----disc----- <-----REL-----
              -----RLC----->
:

```

-
1. Set up calls on every B-channel busy.
 2. No call waiting indication in ACM.
 3. Release the calls in order to get an idle state.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_7_Call_waiting_rejected Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : Call waiting rejected <p>To verify that the IUT sends a REL with cause #21 (call rejected) if a busy user rejects the waiting call.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.2 /Q.733 Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		+set_B_channels_busy			1.
3		CREATE (A_ACCESS_PTC:A_14_7_call_setup, B_ISUP_PTC:B_14_7_call_setup)			
4		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
5		+check_no_channel			
6		CREATE (A_ACCESS_PTC:A_14_7_call_waiting_and_disconnect, B_ISUP_PTC:B_14_7_call_waiting_and_disconnect)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+set_idle_B_channels			4.
9		+postamble			
10		A_14_7_call_setup +A_access_RECEIVE_setup_no_channel(TSV_CREF3) A_14_7_call_waiting_and_disconnect			
11		+A_access_SEND (alert_o_s(1,TSV_CREF3))			
12		+A_access_SEND (disconnect_without_component(TSO_COMPLEMENT_F(TCV_flag_dss1),TSV_CREF3,16))			Send a disconnect
13		+A_access_RECEIVE_CALL_REL_DEFAULT			
14		B_14_7_call_setup +B_SEND(IAM_s_BA (TCV_B_cic)) B_14_7_call_waiting_and_disconnect			
15		+B_RECEIVE_ONE_OR_TWO (ACM_r_AB_Generic_notification_ind_waiting (TCV_B_cic), ACM_r_AB (TCV_B_cic),CPG_r_AB_Generic_notification_ind_waiting (TCV_B_cic))			2-3. Receive a call waiting ind.
16		+B_RECEIVE (REL_r_AB_Cause_21 (TCV_B_cic))			
17		+B_SEND (RLC_m(TCV_B_cic))			Receive a call release
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.					
<div>access</div> <div>SPA</div> <div>SPB</div>					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
<pre><-----setup----- <-----IAM-----] -----alert-----> -----ACM----->] repeat in order to -----connect-----> -----ANM----->] keep all B-channels busy ... check communication ... <-----setup----- <-----IAM----- (no channel) -----alert-----> -----ACM-----> ... call waiting ... (-----CPG-----> ... call waiting ...) -----disc-----> -----REL-----> <-----release----- <-----RLC----- : Implementation access IUT SPB <-----setup----- <-----IAM-----] -----alert-----> -----ACM----->] repeat in order to -----connect-----> -----ANM----->] keep all B-channels busy ... check communication ... <-----setup----- <-----IAM----- (no channel) -----alert-----> -----ACM-----> ... call waiting ... (-----CPG-----> ... call waiting ...) -----disc-----> -----REL-----> <-----release----- <-----RLC----- : 1. Set up calls on all B-channels. 2. Call waiting indication in ACM. 3. Call waiting indication in CPG. 4. Release the calls in order to get an idle state.</pre>		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_14_8_Call_waiting_ignored_expiry_of_call_waiting_supervision_timer Group : ISUP_Supplementary_Services/ISS_14_CW/ Purpose : Call waiting ignored (expiry of call waiting supervision timer) To verify that the IUT sends a REL with cause #19 (no answer from user, user alerted) if a busy user does not answer the waiting call. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 1.5.2.5.2 /Q.733 Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		+set_B_channels_busy			
3		CREATE (A_ACCESS_PTC:A_14_8_call_setup, B_ISUP_PTC:B_14_8_call_setup)			
4		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
5		+check_no_channel			
6		CREATE (A_ACCESS_PTC:A_14_8_call_waiting_timeout, B_ISUP_PTC:B_14_8_call_waiting_timeout)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		+set_idle_B_channels			
9		+postamble			
		A_14_8_call_setup			
10		+A_access_RECEIVE_setup_no_channel(TSV_CREF3)			
		A_14_8_call_waiting_timeout			
11		+A_access_SEND (alert_o_s(1,TSV_CREF3))			
		A_14_5_disconnect			
12		+A_access_RECEIVE(disconnect_o_r (TSV_CREF3))			Receive a disconnect
13		+A_access_SEND_CALL_REL_DEFAULT			
		B_14_8_call_setup			
14		+B_SEND(IAM_s_BA (TCV_B_cic))			
		B_14_8_call_waiting_timeout			
15		+B_RECEIVE_ONE_OR_TWO (ACM_r_AB_Generic_notification_ind_waiting (TCV_B_cic), ACM_r_AB (TCV_B_cic),CPG_r_AB_Generic_notification_ind_waiting (TCV_B_cic))			2-3. Receive a call waiting ind.
16		START T9min, START T9max			Receive a call hold
17		? TIMEOUT T9min CANCEL T9max			
18		+B_RECEIVE (REL_r_AB_Cause_19 (TCV_B_cic))			Receive a call release
19		+B_SEND (RLC_m (TCV_B_cic))			
20		? TIMEOUT T9max		(F)	
21		+B_SEND_CALL_REL			
22		+B_RECEIVE(REL_m(TCV_B_cic))			
23		CANCEL T9min, CANCEL T9max		(F)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND (RLC_m (TCV_B_cic))			
<div>Detailed Comments :</div> <div><div>Pre-test conditions</div><div>Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.</div></div> <div><div></div><div><div>access</div><div><div>SPA</div><div>SPB</div></div><div><-----setup-----<-----IAM-----]</div><div>-----alert----->-----ACM----->]</div><div>-----connect----->-----ANM----->]</div><div>... check communication ...</div><div><-----setup-----<-----IAM-----</div><div>-----ACM-----> call waiting</div><div>(-----CPG-----> call waiting)</div><div> </div><div> </div><div>T9</div></div></div> <div>:</div> <div><div>Implementation</div><div><div>access</div><div><div>IUT</div><div>SPB</div></div><div><-----setup-----<-----IAM-----]</div><div>-----alert----->-----ACM----->]</div><div>-----connect----->-----ANM----->]</div><div>... check communication ...</div><div><-----setup-----<-----IAM-----</div><div>-----ACM-----> call waiting</div><div>(-----CPG-----> call waiting)</div><div> </div><div> </div><div>T9</div></div><div><-----disc----->-----REL-----></div><div><-----RLC-----</div></div> <div><div>1. Call waiting indication in ACM.</div><div>2. Call waiting indication in CPG.</div></div>					

:

Implementation

access

IUT

SPB

<-----setup-----<-----IAM-----]

-----alert----->-----ACM----->]

-----connect----->-----ANM----->]

... check communication ...

<-----setup-----<-----IAM-----

-----ACM-----> call waiting

(-----CPG-----> call waiting)

|

|

T9

<-----disc----->-----REL----->

<-----RLC-----

1. Call waiting indication in ACM.

2. Call waiting indication in CPG.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_1_ISUP_Preference_Indicator_in_the_CCBS_call Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : ISUP Preference Indicator in the CCBS call To verify that for the CCBS call, the IUT sets the ISUP preference indicator in the forward call indicator parameter in the IAM to "ISDN User Part required all the way". Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.4.2.1.1; 3.5.3.1.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_15_1_busy_call, B_ISUP_PTC2 : B_15_1_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_15_1_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_15_1_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_15_1_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_15_1_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_15_1_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_15_1_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_15_1_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_15_1_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		A_15_1_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component
15		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1)) B_15_1_setup_ccbs_call_and_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			4.
17		+ B_SEND (REL_m (TCV_B_cic))			
18		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
<div>Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</div> <div><div>accessSPA </div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_2_CCBS_parameter_in_the_CCBS_call Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS parameter in the CCBS call To verify that for the CCBS call, the IUT includes in the IAM the CCBS call indicator in the CCBS parameter coded as "CCBS call". Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.4.2.1.3 / Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_15_2_busy_call, B_ISUP_PTC2 : B_15_2_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_15_2_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_15_2_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_15_2_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_15_2_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_15_2_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_15_2_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_15_2_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_15_2_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		A_15_2_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBS_Call_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component
15		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1)) B_15_2_setup_ccbs_call_and_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		+ B_RECEIVE (4.
17		IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic)			
18		+ B_SEND (REL_m (TCV_B_cic))			
		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect----- <-----REL----- -----RLC-----> ... TCAP transaction ... -----CCBS recall----> -----IAM-----> : : CCBS call <-----disconnect----- <-----REL----- : </pre> <hr/> <ol style="list-style-type: none"> 1. Set up a call to busy user at SPB. 2. User at SPB is found busy . 3. Check that user at SPB becomes free by using the RemoteUserFree CCBS ASE operation. 4. Check Indication "CCBS call" in the IAM. <p>Implementation</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----call.proc----- <-----disconnect----- <-----REL----- -----RLC-----> -----fac:CCBS Req.inv-----> --TC-BEGIN:CCBS Req.req.ind--> <----- fac:CCBS Req.Ret.Res ----- <-----TC-CONT:CCBS Req.----- -----release -----> <-----release comp----- <----- fac:CCBS Stat.Req.inv----- <---TC-CONT:Remote User Free --- --fac:CCBS Stat.Req.Ret.Res free-> <-fac:CCBS RemoteUserFree inv.-- -----setup fie:CCBS call inv.-----> -----IAM-----> CCBS call : <-----disconnect----- <-----REL----- : </pre> <hr/>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_3_CCBS_call_with_retained_basic_call_information Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS call with retained basic call information To verify that for the CCBS call, the IUT includes the retained call information in the IAM : User service information; User service information prime; Access transport (e.g. called party sub-address); Called party number. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.1.1.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_15_3_busy_call, B_ISUP_PTC2 : B_15_3_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_15_3_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_15_3_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_15_3_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_15_3_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_15_3_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_o_s_with_uui (TCV_flag_dss1, TSV_CREF1, TSV_BCHNUM1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_15_3_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_15_3_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_15_3_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		A_15_3_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBS_Call_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBS_Call invoke component
15		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		B_15_3_setup_ccbs_call_and_release			4.
17		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way_USI_USIp_A TP_CdPN (TCV_B_cic))			
18		+ B_SEND (REL_m (TCV_B_cic)) + B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
<div>Detailed Comments : Pre-test conditions</div> <div>Arrange the data in the IUT such that the calling user subscribes to the CCBS and such that the relevant call information that is to be tested may be provided by the calling user.</div> <div><div>accessSPA </div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_4_CCBS_call_with_retained_call_information_amp_interactions_with_other_supplementa ry_services Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS call with retained call information & interactions with other supplementary services To verify that for the CCBS call, the IUT includes the retained call information in the IAM : Calling party number (if supported); Access transport (e.g. calling party sub-address if supported); UUS1,2,3 (retained request if supported); UUS1 (information given by user in response to CCBS recall, if supported); Optional forward call indicator (with COLP request). Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.1.1.1.1; 3.6.13 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_15_4_busy_call, B_ISUP_PTC2 : B_15_4_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_15_4_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_15_4_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_15_4_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_15_4_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_15_4_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_o_s_with_fie_and_uui_s1_s2_s3 (0, TSV_CREF1, TSV_BCHNUM1, c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 1, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 2, TRUE), c_UUS_invokeComp_service_preferred_s (TCV_inv_id, 3, TRUE)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_15_4_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_15_4_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			
13		B_15_4_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
		A_15_4_setup_ccbs_call_and_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
14		+ A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component 4.
15		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
16		B_15_4_setup_ccbs_call_and_release			
17		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way_USI_USIp_A TP_CdPN (TCV_B_cic))			
18		+ B_SEND (REL_m (TCV_B_cic))			
		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS and such that the relevant call information for the applicable supplementary services may be provided by the calling user (e.g. SUB, COLP).</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect----- <-----REL----- -----RLC-----> ... TCAP transaction ... <-----recall----- --setup CCBS call--> -----IAM-----> ISUP required all the way : <-----disconnect---- <-----REL----- : </pre> <ol style="list-style-type: none"> 1. Set up a call with Calling party number (if supported) ATP (e.g. calling party sub-address if supported); UUS1, 2, 3 (retained request if supported) UUS1 (information given by user in response to CCBS recall, if supported) OFCI (with COLP request) which encounters user at SPB busy, activates TCAP and terminate the call. 2. User at SPB is found busy. 3. Check that user at SPB becomes free by using the RemoteUserFree CCBS ASE operation. 4. CCBS call with ISDN User Part required all the way" in the FCI of the IAM. The retained call information. about ATP, UUS1,2,3 request, UUI in CCBS recall and CdPN shall be checked too. <p>Implementation</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----call.proc----- <-----disconnect----- <-----REL----- -----RLC-----> -----fac:CCBS Req.inv-----> --TC-BEGIN:CCBS Req.req.ind--> <----- fac:CCBS Req.Ret.Res ----- <-----TC-CONT:CCBS Req.----- -----release -----> <-----release comp----- <----- fac:CCBS Stat.Req.inv----- <---TC-CONT:Remote User Free --- --fac:CCBS Stat.Req.Ret.Res free--> <--fac:CCBS RemoteUserFree inv.-- -----setup fie:CCBScall inv.-----> -----IAM-----> ISUP required all the way : <-----disconnect----- <-----REL----- </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments :	...
	:

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_5_CCBS_passed_to_preceding_exchang Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : To verify that the IUT is able to pass the diagnostic field including the CCBS indicator transparently to the preceding exchange Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.3.1;9.4.1;9.5.1/ETS 300 356-18					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		+postamble			Sets final verdict
9		A_call_setup +A_RECEIVE_cic (IAM_r_BA (**B))			
10		A_call_release +A_SEND (REL_s_AB_Diagnostic_CCBS (TCV_A_cic))			Send a release with diagnostic field including CCBS indicator
11		+A_RECEIVE (RLC_m (**B))			
12		B_call_setup +B_SEND (IAM_s_BA (TCV_B_cic))			
13		B_call_release +B_RECEIVE (REL_r_AB_Diagnostic_CCBS (TCV_B_cic))			
14		+B_SEND (RLC_m (TCV_B_cic))			
Detailed Comments : SPC SPA SPB the destination CIC is set to busy. <pre> -----IAM-----> -----IAM-----> <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> ... </pre> <hr/> 1. Setup a call to busy user at SPC. 2. Check diagnostic field. 3. Release the busy call. Implementation: ----- <pre> TTCN IUT TTCN !<-----IAM-----!<-----IAM-----! !-----ACM----->!-----ACM-----> </pre> <pre>ringing tone..... !-----ANM----->!-----ANM----->check communication..... </pre>					

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Test Case Dynamic Behaviour
<div>Detailed Comments : ...<div>!<-----IAM-----!<-----IAM-----! !-----REL----->!-----REL----->! (CCBS indication) !<-----RLC-----!<-----RLC-----! !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->!</div></div>

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_6_CCBS_passed_to_succeeding_exchange Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : To verify that the IUT is able to pass the diagnostic field including the CCBS indicator transparently to the succeeding exchange Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 9.3.1;9.4.1;9.5.1/ETS 300 356-18					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		+check_idle			
8		CREATE (A_ISUP_PTC:A_step3, B_ISUP_PTC:B_step3)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+check_communication			
11		CREATE (A_ISUP_PTC:A_step4, B_ISUP_PTC:B_step4)			
12		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
13		+check_idle			
14		+postamble			Sets final verdict
		A_call_setup			
15		+A_SEND (IAM_s_AB (TCV_A_cic))			
		A_call_release			
16		+A_RECEIVE_CALL_REL			
		A_step3			
17		+A_SEND (IAM_s_AB_CCBS (TCV_A_cic))			Send a release with diagnostic field including CCBS indicator
18		+A_RECEIVE (ACM_m(TCV_A_cic))			
19		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_step4			
20		+A_SEND_CALL_REL			
		B_call_setup			
21		+B_RECEIVE_cic (IAM_r_AB (**B))			
		B_call_release			
22		+B_SEND_CALL_REL			
		B_step3			
23		+B_RECEIVE_cic (IAM_r_AB_CCBS (**B))			
24		+B_SEND (ACM_m(TCV_B_cic))			
25		+B_SEND (ANM_m (TCV_B_cic))			
		B_step4			
26		+B_RECEIVE_CALL_REL			

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Test Case Dynamic Behaviour

Detailed Comments : SPC SPA SPB
the destination CIC is set to busy.

```

-----IAM-----> -----IAM----->
<-----REL----- <-----REL-----
-----RLC-----> -----RLC----->
...

```

-
1. Setup a call to busy user at SPC.
 2. Check diagnostic field.
 3. Release the busy call.

Implementation:

```

-----
TTCN          IUT          TTCN
!<-----IAM-----!<-----IAM-----!
!-----ACM----->!-----ACM----->!

.....ringing tone.....
!-----ANM----->!-----ANM----->!
.....check communication.....
!<-----IAM-----!<-----IAM-----!
!-----REL----->!-----REL----->! (CCBS indication)
!<-----RLC-----!<-----RLC-----!

!<-----REL-----!<-----REL-----!
!-----RLC----->!-----RLC----->!

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_7_CCBS_possible_to_destination_B Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS possible to destination B <p>To verify that the IUT is able to generate in a REL message with cause # 17 "User busy" or # 34 "No circuit available" the diagnostic field containing a CCBS indicator with a "CCBS possible" indication.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.4.2.1.2 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_7_call_setup, A_ACCESS_PTC : A_15_7_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_7_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_7_call_release2, A_ACCESS_PTC : A_15_7_call_release2)			
7		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
8		+check_idle			
9		+postamble			Sets final verdict
10		B_15_7_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
11		A_15_7_call_setup + A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
12		B_15_7_call_setup_to_busy_sc + B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
13		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
14		+ B_SEND (RLC_m (TCV_B_cic))			
15		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
16		+ B_SEND (RLC_m (TCV_B_cic))			
17		B_15_7_call_release2 + B_SEND_CALL_REL_A_CIC			
18		A_15_7_call_release2 + A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
Detailed Comments : Pre-test conditions <p>access SPA SPB set the destination B busy</p>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

user busy          <-----IAM-----
                   -----REL----->
                   <-----RLC-----
<---disconnect---- <-----REL-----
                   -----RLC----->
:

```

-
1. UNI at SPA becomes busy.
 2. Check that "CCBS possible" is received in the release message with cause value #17 or #34.
 3. Release the busy call.

Implementation:

```

access          IUT          SPB
<-----setup---- <-----IAM-----
-----alert-----> -----ACM----->
-----conn-----> -----ANM----->
<---conn.ack ----
      (access busy) <-----IAM(cic2)-----
                   -----REL(cic2)-----> #17 or #34 with "CCBS Possible"
                   <-----RLC(cic2)-----

<---disconnect---- <-----REL-----
:                  -----RLC----->

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_8_CCBS_parameter_in_the_CCBS_call Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS parameter in the CCBS call To verify that the IUT is able to terminate the CCBS call, with the CCBS call indicator in the CCBS parameter in the IAM coded as "CCBS call". Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.4.2.1.3 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (B_ISUP_PTC2 : B_15_8_setup_busy_A, A_ACCESS_PTC : A_15_8_setup_busy_A)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (B_ISUP_PTC2 : B_15_8_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_8_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_8_activate_and_invoke_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		CREATE (A_ACCESS_PTC : A_15_8_setup_ccbs_call, B_ISUP_PTC2 : B_15_8_setup_ccbs_call)			
9		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
10		CREATE (B_ISUP_PTC2 : B_15_8_call_release2, A_ACCESS_PTC : A_15_8_call_release2)			
11		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
12		+ check_idle			
13		+ postamble			
14		B_15_8_setup_busy_A + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_8_setup_busy_A			
15		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_8_call_setup_to_busy_sc			
16		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
17		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
18		+ B_SEND (RLC_m (TCV_B_cic))			
19		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
20		+ B_SEND (RLC_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		B_15_8_activate_and_invoke_ccbs			
22		+ B_CCBS_ACT_INV_BA			
		+ B_RECEIVE_CALL_REL_A_CIC			
23		A_15_8_activate_and_invoke_ccbs			
		+ A_access_CCBS_ACT_INV_BA			
		B_15_8_setup_ccbs_call			
24		+ B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
25		+ B_RECEIVE (ACM_r_BA (TCV_B_cic))			
26		+ B_RECEIVE (ANM_r_BA (TCV_B_cic))			
		A_15_8_setup_ccbs_call			
27		+ A_access_CALL_SETUP_BA (TSV_CREF2, alert_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_ack_o_r (TSV_CREF2))			
		B_15_8_call_release2			
28		+ B_SEND_CALL_REL			
		A_15_8_call_release2			
29		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1_2, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2))			

Detailed Comments : Pre-test conditions

```

access          SPA          SPB
set the destination B busy
               <-----IAM-----> normal call
               -----REL-----> CCBS possible
               <-----RLC----->
... TCAP transaction ..
user frees resources
               RemoteUserFree to CCBS call ( & reserve resource)
               resource(s) still available
<-----setup-----> <-----IAM-----> CCBS call
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
<-----disc-----> <-----REL----->
:

```

1. UNI at SPA becomes busy.
2. Check that remote user is free by using the RemoteUserFree CCBS ASE operation.
3. Process a CCBS call specified in the IAM.
4. Check that the call is terminated (ANM, CON, ...).

Implementation

```

access          SPA          SPB
<-----setup-----> <-----IAM----->
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
<-----conn.ack----->
               <-----IAM(cic2)----->
               -----REL(cic2)----->
               <-----RLC(cic2)----->

<----- fac:CCBS Stat Req.inv-----> <--TC-BEGIN:CCBS Req.req.ind-->
--fac:CCBS Stat Req.Ret.Res busy--> -----TC-CONT:CCBS Req.----->

```

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----release-----> -----REL----->
<-----release comp----- <-----RLC-----
<---- fac:CCBS Stat.Req.inv-----
--fac:CCBS Stat.Req.Ret.Res free-> o
                               | CCBS-T8
                               x
<---- fac:CCBS Stat.Req.inv-----
--fac:CCBS Stat.Req.Ret.Res free-> --TC-CONT:Remote User Free -->

<----setup fie:CCBS call inv.----- <-----IAM(cic2)----- "CCBS Call"
-----alert-----> -----ACM(cic2)----->
-----connect-----> -----ANM(cic2)----->
<-----conn.ack-----

<-----disconnect----- <-----REL(cic2)-----
:
```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_9_CCBS_not_possible_to_destination_B Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS not possible to destination B <p>To verify that the IUT is able to generate in a REL message with cause #17 "User busy" or cause #34 "No circuit available" the diagnostic field containing a CCBS indicator with a "CCBS not possible" indication. Note: CCBS is not possible because e.g. the queue is set to zero or filled up or due to maintenance reasons.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_9_call_setup, A_ACCESS_PTC : A_15_9_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_9_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_9_call_release2, A_ACCESS_PTC : A_15_9_call_release2)			
7		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
8		+check_idle			
9		+postamble			Sets final verdict
10		B_15_9_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_9_call_setup			
11		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_9_call_setup_to_busy_sc			
12		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
13		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_not_possible (TCV_B_cic))			
14		+ B_SEND (RLC_m (TCV_B_cic))			
15		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_not_possible (TCV_B_cic))			
16		+ B_SEND (RLC_m (TCV_B_cic))			
17		B_15_9_call_release2 + B_SEND_CALL_REL_A_CIC			
18		A_15_9_call_release2 + A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that CCBS for destination B is not possible					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

access          SPA          SPB
set the destination
B busy
user busy      <-----IAM-----
               -----REL----->
               <-----RLC-----
<---disconnect--- <-----REL-----
               -----RLC----->
:

```

-
1. Set up a call to busy user at SPA.
 2. Check that "CCBS not possible" is received in the release message with cause value #17 or #34.
 3. Release the busy call.

Implementation:

```

access          IUT          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
-----conn-----> -----ANM----->
<-----conn.ack -----
      (access busy)  <-----IAM(cic2)-----
                   -----REL(cic2)-----> #17 or #34 with "CCBS not Possible"
                   <-----RLC(cic2)-----

<---disconnect--- <-----REL-----
:                  -----RLC----->

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_10_Destination_busy_upon_arrival_of_CCBS_call_Interaction_with_CFB_and_retention_option_supported Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : Destination busy upon arrival of CCBS call –Interaction with CFB and retention option supported To verify that the IUT sends a release message with cause #17 or #34 and diagnostic "CCBS possible". The DLE should retain the original request in the queue. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.6.10.2.2 c); 3.5.3.5.2 c)/Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (B_ISUP_PTC2 : B_15_10_setup_busy_A, A_ACCESS_PTC : A_15_10_setup_busy_A)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (B_ISUP_PTC2 : B_15_10_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_10_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_10_activate_and_invoke_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		CREATE (B_ISUP_PTC2 : B_15_10_setup_ccbs_call_busy)			
9		? DONE (B_ISUP_PTC2)			
10		CREATE (B_ISUP_PTC2 : B_15_10_call_release2, A_ACCESS_PTC : A_15_10_call_release2)			
11		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
12		+ check_idle			
13		+ postamble			
		B_15_10_setup_busy_A			
14		+ B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
		A_15_10_setup_busy_A			
15		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
		B_15_10_call_setup_to_busy_sc			
16		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
17		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
18		+ B_SEND (RLC_m (TCV_B_cic))			
19		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+ B_SEND (RLC_m (TCV_B_cic))			
21		B_15_10_activate_and_invoke_ccbs			
22		+ B_CCBS_ACT_INV_BA			
23		A_15_10_activate_and_invoke_ccbs			
24		+ A_access_CCBS_ACT_INV_NO_RELEASE_BA			
25		B_15_10_setup_ccbs_call_busy			
26		+ B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
27		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
28		+ B_SEND (RLC_m (TCV_B_cic))			
29		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
30		+ B_SEND (RLC_m (TCV_B_cic))			
31		B_15_10_call_release2			
32		+ B_SEND_CALL_REL_A_CIC			
33		A_15_10_call_release2			
34		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
<p>Detailed Comments : Pre-test conditions</p> <pre> access SPA SPB set the destination B busy user busy <-----IAM----- -----REL-----> <-----RLC----- <---disconnect--- <-----REL----- -----RLC-----> : </pre> <p>1. Set up a call to busy user at access. 2. Check that "CCBS possible" is received in the release message with cause value #17 or #34. 3. Release the busy call.</p> <p>Implementation</p> <pre> access SPA SPB <-----setup----- <-----IAM----- -----alert-----> -----ACM-----> -----connect-----> -----ANM-----> <-----conn.ack----- <-----IAM(cic2)----- -----REL(cic2)-----> <-----RLC(cic2)----- <---- fac:CCBS Stat.Req.inv----- <--TC-BEGIN:CCBS Req.req.ind-- --fac:CCBS Stat.Req.Ret.Res busy-> ----TC-CONT:CCBS Req.-----> (access does so as it were free) <---- fac:CCBS Stat.Req.inv----- --fac:CCBS Stat.Req.Ret.Res free-> o CCBS-T8 x <---- fac:CCBS Stat.Req.inv----- --fac:CCBS Stat.Req.Ret.Res free-> --TC-CONT:Remote User Free --> </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
(access busy again)	<-----IAM(cic2)-----
Possible"	-----REL(cic2)-----> #17 or #34 "CCBS
	<-----RLC(cic2)-----
	<-----disconnect----- <-----REL-----
:	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_11_Destination_busy_upon_arrival_of_CCBS_call_Interaction_with_CFB_and_no_retention_option_supported Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : Destination busy upon arrival of CCBS call – Interaction with CFB and no retention option supported To verify that the IUT sends a release message with cause #17 or #34 with diagnostic "CCBS possible" when the terminals are compatible. The DLE releases all its resources for the original request and waits for new CCBS request. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.6.10.2.2 c); 3.5.3.5.2 c)/Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (B_ISUP_PTC2 : B_15_11_setup_busy_A, A_ACCESS_PTC : A_15_11_setup_busy_A)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (B_ISUP_PTC2 : B_15_11_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_11_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_11_activate_and_invoke_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		CREATE (B_ISUP_PTC2 : B_15_11_setup_ccbs_call_busy)			
9		? DONE (B_ISUP_PTC2)			
10		CREATE (B_ISUP_PTC2 : B_15_11_call_release2, A_ACCESS_PTC : A_15_11_call_release2)			
11		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
12		+ check_idle			
13		+ postamble			
14		B_15_11_setup_busy_A + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_11_setup_busy_A			
15		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_11_call_setup_to_busy_sc			
16		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
17		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
18		+ B_SEND (RLC_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
20		+ B_SEND (RLC_m (TCV_B_cic))			
21		B_15_11_activate_and_invoke_ccbs + B_CCBS_ACT_INV_BA			
22		A_15_11_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_NO_RELEASE_BA			
23		B_15_11_setup_ccbs_call_busy + B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
24		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
25		+ B_SEND (RLC_m (TCV_B_cic))			
26		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
27		+ B_SEND (RLC_m (TCV_B_cic))			
28		B_15_11_call_release2 + B_SEND_CALL_REL_A_CIC			
29		A_15_11_call_release2 + A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			
Detailed Comments : Pre-test conditions <p> access SPA SPB set the destination B busy user busy <-----IAM----- -----REL-----> CCBS possible <-----RLC----- ... TCAP transaction .. RemoteUserFree user busy again <-----IAM----- CCBS call -----REL-----> CCBS possible <-----RLC----- <--disconnect--- <-----REL----- -----RLC-----> </p> <hr/> 1. Set up a call to busy user at access. 2. CCBS call. 3. Check that "CCBS possible" is received in the release message with cause value # 17 or #34. <p>Implementation</p> <p> access SPA SPB <-----setup----- <-----IAM----- -----alert-----> -----ACM-----> -----connect-----> -----ANM-----> <-----conn.ack----- <-----IAM(cic2)----- -----REL(cic2)-----> <-----RLC(cic2)----- </p> <p> <---- fac:CCBS Stat.Req.inv----- <--TC-BEGIN:CCBS Req.req.ind-- --fac:CCBS Stat.Req.Ret.Res busy-> ----TC-CONT:CCBS Req.-----> (access does so as it were free) </p>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	<---- fac:CCBS Stat.Req.inv-----
	--fac:CCBS Stat.Req.Ret.Res free-> o
	CCBS-T8
	x
	<---- fac:CCBS Stat.Req.inv-----
	--fac:CCBS Stat.Req.Ret.Res free-> --TC-CONT:Remote User Free -->
	(access busy again) <-----IAM(cic2)-----
	-----REL(cic2)-----> #17 or #34 "CCBS
Possible"	
	<-----RLC(cic2)-----
	<-----disconnect-----<-----REL-----
:	

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_12_CCBS_call_as_a_normal_call__Interaction_with_CFB Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : CCBS call as a normal call – Interaction with CFB <p>To verify that the IUT deletes the CCBS parameter in the IAM if the CCBS call is forwarded by the initially busy user.</p> Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.7.10.2.2 c)/Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ISUP_PTC : A_15_12_all, B_ISUP_PTC : B_15_12_all)			
3		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC : A_15_12_call_release, B_ISUP_PTC : B_15_12_call_release)			
5		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		+ check_idle			
7		+ postamble			
		A_15_12_all			
8		+ A_SEND (IAM_s_AU (TCV_A_cic))			
9		+ A_RECEIVE (REL_r_UA_Cause17_CCBS_possible (TCV_A_cic))			
10		+ A_SEND (RLC_m (TCV_A_cic))			
11		+ B_CCBS_ACT_INV_BA			
12		+ A_SEND (IAM_s_AU_ccbs_fci_isup_required_all_the_way (TCV_A_cic))			
13		+ A_RECEIVE (REL_r_UA_Cause34_CCBS_possible (TCV_A_cic))			
14		+ A_SEND (RLC_m (TCV_A_cic))			
15		+ B_CCBS_ACT_INV_BA			
16		+ A_SEND (IAM_s_AU_ccbs_fci_isup_required_all_the_way (TCV_A_cic))			
		B_15_12_all			
17		+ B_RECEIVE (IAM_r_UB (TCV_B_cic))			
		A_15_12_call_release			
18		+ A_SEND_CALL_REL			
		B_15_12_call_release			
19		+ B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions User at destination B must subscribe to and activate CFB to an external user while the recall timer is running (CCBS–T9). SPC SPA SPB -----IAM-----> (busy) <-----REL----- -----RLC-----> (user at SPA activates CDIV while CCBS–T9 runs) -----IAM-----> -----IAM-----> CFB with CCBSpar no CCBSpar :					

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Test Case Dynamic Behaviour

Detailed Comments : ...

1. Set up a call to busy user at SPA.
2. Check that no CCBSpar is received in the IAM.

Implementation

SPA

IUT

SPB

-----IAM----->

<-----REL-----

-----RLC----->

(user at SPA activates CDIV while CCBS-T9 runs)

-----IAM-----> -----IAM-----> CFB

with CCBSpar no CCBSpar

-----REL-----> -----REL----->

:

1569

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_13_Maximum_number_of_CCBS_request_queue_entries_of_destination_B Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : Maximum number of CCBS request queue entries of destination B To verify that the IUT supports the maximum number of up to 5 queue entries. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.3.5.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_13_call_setup, A_ACCESS_PTC : A_15_13_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_13_ccbs_setup)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_13_call_release2, A_ACCESS_PTC : A_15_13_call_release2)			
7		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
8		+ check_idle			
9		+ postamble			
10		B_15_13_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
11		A_15_13_call_setup + A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
12		B_15_13_ccbs_setup (TCV_cic := TSO_NEXT_CIC (TCV_cic), TCV_count0 := 1)			
13		REPEAT Add_CCBS_request UNTIL [TCV_count0 = TSP_MAX_CCBS_ENTRIES]			
14		(TCV_cic := TSO_NEXT_CIC (TCV_cic))			
15		+ B_SEND (IAM_s_BA_Called_party_number (TCV_cic))			
16		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_not_possible (TCV_cic))			
17		+ B_SEND (RLC_m (TCV_cic))			
18		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_not_possible (TCV_cic))			
19		+ B_SEND (RLC_m (TCV_cic))			
20		B_15_13_call_release2 + B_SEND_CALL_REL_A_CIC			
21		A_15_13_call_release2 + A_access_RECEIVE_CALL_REL_DEFAULT			
22		Add_CCBS_request (TCV_count0 := TCV_count0 + 1)			
23		(TCV_cic := TSO_NEXT_CIC (TCV_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+ B_SEND (IAM_s_BA_Called_party_number (TCV_cic))			
25		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_cic))			
26		+ B_SEND (RLC_m (TCV_cic))			
27		+ B_CCBS_ACT_INV_BA			
28		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_cic))			
29		+ B_SEND (RLC_m (TCV_cic))			
30		+ B_CCBS_ACT_INV_BA			
<p>Detailed Comments : Pre-test conditions</p> <p>access SPA SPB</p> <p>set the destination</p> <p>B busy</p> <p>user busy <-----IAM-----</p> <p>-----REL-----></p> <p><-----RLC-----</p> <p>...TCAP transaction ...</p> <p>Repeat more than 5 set up to busy user at SPA</p> <p>:</p> <p><-----disconnect--- <-----REL-----</p> <p>-----RLC-----></p> <hr/> <p>1. Set up a call to busy user at access.</p> <p>2. Send maximum number of CCBS requests and check that user at SPA becomes free by using the RemoteUserFree CCBS ASE operation.</p> <p>3. One more IAM after the maximum number of calls is reached at SPA.</p> <p>4. Check that "not CCBS possible" is received in the REL with cause value # 17 or #34.</p> <p>5. Release the busy call.</p> <p>6. Set up calls (maximum 5 different) from SPB to SPA which encounters user at SPA busy. Activate CCBS for the different calls.</p> <p>6. User at SPB requests maximum allowed CCBS request.</p> <p>7. Received REL with cause value #17 or #34.</p> <p>Implementation</p> <p>access SPA SPB</p> <p><-----setup----- <-----IAM-----</p> <p>-----alert-----> -----ACM-----></p> <p>-----connect-----> -----ANM-----></p> <p><-----conn.ack-----</p> <p><-----IAM-----</p> <p>-----REL-----></p> <p><-----RLC-----</p> <p>...TCAP transaction ...</p> <p>Repeat more than 5 set up to busy user at SPA</p> <p>:</p> <p><-----disconnect----- <-----REL-----</p> <p>-----RLC-----></p> <hr/>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_14_Incoming_nonCCBS_call_with_identical_service_requirements_released Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : Incoming non-CCBS call with identical service requirements released <p>To verify that the IUT, having an entry in the CCBS queue, releases a second incoming call if the service requirements of the second call are identical to the entry being processed and resources are available. Note: The original request remains in the queue.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.3.5.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (B_ISUP_PTC2 : B_15_14_setup_busy_A, A_ACCESS_PTC : A_15_14_setup_busy_A)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (B_ISUP_PTC2 : B_15_14_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_14_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_14_activate_and_invoke_ccbs)			
7		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
8		CREATE (B_ISUP_PTC2 : B_15_14_2nd_independent_call)			
9		? DONE (B_ISUP_PTC2)			
10		CREATE (A_ACCESS_PTC : A_15_14_setup_ccbs_call, B_ISUP_PTC2 : B_15_14_setup_ccbs_call)			
11		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
12		CREATE (B_ISUP_PTC2 : B_15_14_call_release2, A_ACCESS_PTC : A_15_14_call_release2)			
13		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
14		+ check_idle			
15		+ postamble			
16		B_15_14_setup_busy_A + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_14_setup_busy_A			
17		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_14_call_setup_to_busy_sc			
18		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
20		+ B_SEND (RLC_m (TCV_B_cic))			
21		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
22		+ B_SEND (RLC_m (TCV_B_cic))			
		B_15_14_activate_and_invoke_ccbs			
23		+ B_CCBS_ACT_INV_BA			
24		+ B_RECEIVE_CALL_REL_A_CIC			
		A_15_14_activate_and_invoke_ccbs			
25		+ A_access_CCBS_ACT_INV_BA			
		B_15_14_2nd_independent_call			
26		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
27		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
28		+ B_SEND (RLC_m (TCV_B_cic))			
29		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
30		+ B_SEND (RLC_m (TCV_B_cic))			
		B_15_14_setup_ccbs_call			
31		+ B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
32		+ B_RECEIVE (ACM_r_BA (TCV_B_cic))			
33		+ B_RECEIVE (ANM_r_BA (TCV_B_cic))			
		A_15_14_setup_ccbs_call			
34		+ A_access_CALL_SETUP_BA (TSV_CREF2, alert_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_ack_o_r (TSV_CREF2))			
		B_15_14_call_release2			
35		+ B_SEND_CALL_REL			
		A_15_14_call_release2			
36		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1_2, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2))			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT so that there are free resources in addition to the resource reserved for the first CCBS request.</p> <p>access SPA SPB set the destination B busy user busy <-----IAM-----> 1st call -----REL-----> CCBS possible <-----RLC-----> ... TCAP transaction .. user frees resources RemoteUserFree to 1st call (& reserve resource resource(s) still available for potential 2nd call <-----IAM-----> 2nd. independent call -----REL-----> released because identical requirements</p>					

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Test Case Dynamic Behaviour

Detailed Comments : ...

<-----RLC-----
... check TCAP transaction ...

<-----IAM----- 1st. CCBS call (empty queue)
...continue CCBS call 1st call.

:

-
1. Set up a 1st call to busy user at access.
 2. Check release message with cause value # 17 or # 34 (1st call).
 3. Check that remote user is free by using the RemoteUserFree CCBS ASE operation.
 4. Process a second identical (with the same requirement to the one being processed) set up to the same remote user.
 5. Check that the call is released with cause #17 or # 34 (2nd call).
 6. Continue the 1st CCBS call in order to get an idle state.
 7. Continue the 2nd CCBS call in order to get an idle state.

Implementation

access	SPA	SPB
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
-----connect----->	-----ANM----->	
<-----conn.ack-----		
	<-----IAM-----	
	-----REL----->	
	<-----RLC-----	
	... TCAP transaction ...	
	<-----IAM-----	
	-----REL----->	
	<-----RLC-----	
	... check TCAP transaction ...	
<-----setup-----	<-----IAM-----	
-----alert----->	-----ACM----->	
-----connect----->	-----ANM----->	
<-----conn.ack-----		
<-----disconnect-----	<-----REL-----	
:		

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_15_15_Incoming_nonCCBS_call_with_not_identical_service_requirements_accepted Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ISUP/ Purpose : Incoming non-CCBS call with not identical service requirements accepted <p>To verify that the IUT, having a queue entry in the CCBS queue, accepts a second incoming call if the service requirements of the second call are not identical to the entry being processed and resources are available. Note: The original request remains in the queue.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.3.5.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (B_ISUP_PTC2 : B_15_15_setup_busy_A, A_ACCESS_PTC : A_15_15_setup_busy_A)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (B_ISUP_PTC2 : B_15_15_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_15_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_15_activate_and_invoke_ccbs)			
7		? DONE (B_ISUP_PTC2)			
8		CREATE (B_ISUP_PTC2 : B_15_15_2nd_independent_call, A_ACCESS_PTC : A_15_15_2nd_independent_call)			
9		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
10		CREATE (B_ISUP_PTC2 : B_15_15_call_release, A_ACCESS_PTC : A_15_15_call_release)			
11		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
12		CREATE (A_ACCESS_PTC : A_15_15_setup_ccbs_call, B_ISUP_PTC2 : B_15_15_setup_ccbs_call)			
13		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
14		CREATE (B_ISUP_PTC2 : B_15_15_call_release2, A_ACCESS_PTC : A_15_15_call_release2)			
15		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
16		+ check_idle			
17		+ postamble			
18		B_15_15_setup_busy_A + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_15_setup_busy_A			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_15_call_setup_to_busy_sc			
20		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
21		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
22		+ B_SEND (RLC_m (TCV_B_cic))			
23		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
24		+ B_SEND (RLC_m (TCV_B_cic)) B_15_15_activate_and_invoke_ccbs			
25		+ B_CCBS_ACT_INV_BA			
26		+ B_RECEIVE_CALL_REL_A_CIC A_15_15_activate_and_invoke_ccbs			
27		+ A_access_CCBS_ACT_INV_BA B_15_15_2nd_independent_call			
28		+ B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_B_cic), ACM_r_BA (TCV_B_cic), ANM_r_BA (TCV_B_cic)) A_15_15_2nd_independent_call			
29		+ A_access_CALL_SETUP_BA (TSV_CREF2, alert_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_ack_o_r (TSV_CREF2)) B_15_15_call_release			
30		+ B_SEND_CALL_REL A_15_15_call_release			
31		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1_2, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2)) B_15_15_setup_ccbs_call			
32		+ B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
33		+ B_RECEIVE (ACM_r_BA (TCV_B_cic))			
34		+ B_RECEIVE (ANM_r_BA (TCV_B_cic)) A_15_15_setup_ccbs_call			
35		+ A_access_CALL_SETUP_BA (TSV_CREF2, alert_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_ack_o_r (TSV_CREF2)) B_15_15_call_release2			
36		+ B_SEND_CALL_REL A_15_15_call_release2			
37		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1_2, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2))			

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Test Case Dynamic Behaviour

Detailed Comments : Pre-test conditions
 Arrange the data in the IUT so that there are free resources in addition to the resource reserved for the first CCBS request.

```

access          SPA          SPB
set the destination
B busy
user busy          <-----IAM----- 1st call
                   <-----REL-----> CCBS possible
                   <-----RLC-----
                   ... TCAP transaction ..
user frees resources
  RemoteUserFree to 1st call ( & reserve resource)
  resource(s) still available for potential 2nd call
<-----setup----- <-----IAM----- 2nd. independent call
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
<-----disc----- <-----REL-----
                   ...continue with the 1st CCBS call
:

```

1. Set up a call to busy user at access.
2. Check release message with cause value #17 or # 34 (1st call).
3. Check that remote user is free by using the RemoteUserFree CCBS ASE operation.
4. Process a second non-identical (without the same requirement to the one being processed) set up.
5. Check that the call is accepted (ANM, CON, ...).
6. End the TCAP dialogue for the 1st call.

Implementation

```

access          SPA          SPB
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
<-----conn.ack-----
                   <-----IAM-----
                   <-----REL----->
                   <-----RLC-----
                   ... TCAP transaction ...
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
<-----conn.ack-----
<-----disconnect----- <-----REL-----
:
<-----setup----- <-----IAM-----
-----alert-----> -----ACM----->
-----connect-----> -----ANM----->
<-----conn.ack-----
<-----disconnect----- <-----REL-----
:

```

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_1_Ability_to_perform_a_CCBS_REQUEST_class_1_operation__successful Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Ability to perform a CCBS REQUEST class 1 operation – successful To verify that the IUT can successfully perform a CCBS REQUEST operation if required by the calling user: Notes: 1. Send a CcbsRequest invoke to the DLE by using the TCAP primitive TC-BEGIN request(TC-INVOKE request). 2. Receive a CcbsRequest return result from the DLE in a TC-CONTINUE indication(TC-INVOKE indication). Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.1.1.1.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_1_busy_call, B_ISUP_PTC2 : B_TC_15_1_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_1_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_1_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_TC_15_1_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_TC_15_1_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_TC_15_1_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1–2.
11		B_TC_15_1_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1–2.
12		A_TC_15_1_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_TC_15_1_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		+ B_RECEIVE_CALL_REL_A_CIC			
15		A_TC_15_1_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			4.
17		B_TC_15_1_setup_ccbs_call_and_release			
18		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
19		+ B_SEND (REL_m (TCV_B_cic)) + B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. access SPA SPB -----setup-----> -----IAM-----> <-----disconnect---- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request--- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxCB_BEGIN_REQ--> stop CCBS-T2 <--TC_CONTINUE_INDx start CCBS-T3 : ----CCBS recall----> -----IAM-----> CCBS call : <-----disconnect---- <-----REL----- : <hr/> 1. The access side activates CCBS. 2. The CcbsRequest invocation is received. 3. The user at SPB is now free for a CCBS call. 4. CCBS call set up with ISDN User Part required all the way in the FCI of the IAM.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_2_Ability_to_perform_a_CCBS_REQUEST_class_1_operation__unsuccessful Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Ability to perform a CCBS REQUEST class 1 operation – unsuccessful To verify that if a failure occurs (short or long term denial) while invoking a CCBS REQUEST operation, the IUT is able to indicate the result to the calling user. Notes: 1. Send a CcbsRequest invoke to the DLE by using the TCAP primitive TC-BEGIN request(TC-INVOKE request). 2. Receive a CcbsRequest return error from the DLE in a TC-END indication(TC-U-ERROR indication). Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.1.1.2 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_2_busy_call, B_ISUP_PTC2 : B_TC_15_2_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_2_activate_ccbs, B_ISUP_PTC2 : B_TC_15_2_activate_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_2_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1)) B_TC_15_2_busy_call			1–2.
9		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic)) A_TC_15_2_activate_ccbs			1–2.
10		+ A_access_CCBS_Activation_fail_AB (longTermDenial) B_TC_15_2_activate_ccbs			3.
11		+ B_CCBS_Activation_fail_AB			3.
12		+ B_RECEIVE_CALL_REL_A_CIC			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. <pre> access SPA SPB -----setup-----> -----IAM-----> <----disconnect----- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request--- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxxTC_BEGIN_REQxxxx-> </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	stop CCBS-T2 <---TC_END_INDxxxxxxxxx
	<hr/> 1. The access side activates CCBS. 2. The CcbsRequest invocation is received.

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_3_Ability_to_perform_a_CCBS_CANCEL_class_4_operation Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Ability to perform a CCBS CANCEL class 4 operation To verify that the IUT can successfully perform a deactivation request if required by the calling user: Note: Send a CcbsCancel invoke without cancelCause to the DLE by using the TCAP primitive TC-END request(TC-INVOKE request). Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.2.1.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_3_busy_call, B_ISUP_PTC2 : B_TC_15_3_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_3_activate_ccbs, B_ISUP_PTC2 : B_TC_15_3_activate_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_TC_15_3_deactivate_ccbs, B_ISUP_PTC2 : B_TC_15_3_deactivate_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_TC_15_3_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_TC_15_3_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_TC_15_3_activate_ccbs + A_access_CCBS_Activation_AB			3.
13		B_TC_15_3_activate_ccbs + B_CCBS_Activation_AB			3.
14		+ B_RECEIVE_CALL_REL_A_CIC			
15		A_TC_15_3_deactivate_ccbs + A_access_CCBS_Deactivation_AB			
16		B_TC_15_3_deactivate_ccbs + B_CCBS_Deactivation_AB			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. access SPA SPB -----setup-----> -----IAM----->					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----disconnect----- <-----REL----->
                        -----RLC-----> (normal call, user at SPB busy)
... TCAP transaction ...
start CCBS-T1  --
<--CCBS Act request-----
--CCBS Act response-->
stop CCBS-T1
start CCBS-T2          xxxxTC_BEGIN_REQxx->
stop CCBS-T2          <--TC_CONTINUE_INDxx
start CCBS-T3
<--CCBS Deact request--
--CCBS Deact response->
                        xxTC_END REQxxxx---->

stop CCBS-T3
```

-
1. The access side activates and deactivates CCBS.
 2. Check that the CcbsRequest invocation is received.

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_4_Ability_to_indicate_a_CCBS_recall_to_the_calling_user Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Ability to indicate a CCBS recall to the calling user <p>To verify that the IUT can successfully initiate a CCBS recall to the calling user:</p> <p>Note: Receive a RemoteUserFree invoke from the DLE in a TC-CONTINUE indication(TC-INVOKE indication).</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.3.1.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_4_busy_call, B_ISUP_PTC2 : B_TC_15_4_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_4_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_4_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_TC_15_4_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_TC_15_4_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_TC_15_4_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_TC_15_4_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_TC_15_4_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_TC_15_4_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		+ B_RECEIVE_CALL_REL_A_CIC			
15		A_TC_15_4_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component
16		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		B_TC_15_4_setup_ccbs_call_and_release			4.
		+ B_RECEIVE (
18		IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic)			
19)			
		+ B_SEND (REL_m (TCV_B_cic))			
		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
Detailed Comments : Pre-test conditions					
Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.					
<pre>access SPA SPB -----setup-----> -----IAM-----> <-----disconnect---- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request--- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQxxxx--> stop CCBS-T2 <--TC_CONTINUE_INDxxxx start CCBS-T3 : <---CCBS recall act--- -----CCBS recall-----> -----IAM-----> CCBS call : <-----disconnect----- <-----REL----- : :</pre>					
<hr/>					
<p>1. The access side activates CCBS request and CCBS recall.</p> <p>2. Check that the CcbsRequest invocation is received.</p> <p>3. The user at SPB is now free for a CCBS call.</p> <p>4. Check that CCBS call with ISDN User Part required all the way in the FCI of the IAM.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_5_Calling_user_busy_when_destination_B_becomes_free Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Calling user busy when destination B becomes free To verify that the IUT can act correctly after receipt of the indication that destination B is free but calling user A is still busy: Notes: 1. Receive a RemoteUserFree invoke from the DLE in a TC-CONTINUE indication(TC-INVOKE indication) 2. Notify the calling user A 3. Send CcbsSuspend invoke in a TC-CONTINUE request(TC-INVOKE request) to the DLE 4. eventually send CcbsResume invoke in TC-CONTINUE request(TC-INVOKE request) to the DLE if the calling user becomes free. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.3.1.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_5_busy_call, B_ISUP_PTC2 : B_TC_15_5_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_5_activate_ccbs, B_ISUP_PTC2 : B_TC_15_5_activate_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_TC_15_5_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_5_invoke_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		CREATE (A_ACCESS_PTC : A_TC_15_5_2nd_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_5_2nd_invoke_ccbs)			
9		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
10		CREATE (A_ACCESS_PTC : A_TC_15_5_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_TC_15_5_setup_ccbs_call_and_release)			
11		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
12		+ check_idle			
13		+ postamble			
14		A_TC_15_5_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			
15		B_TC_15_5_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic)) A_TC_15_5_activate_ccbs			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		+ A_access_CCBS_Activation_AB B_TC_15_5_activate_ccbs			
17		+ B_CCBS_ACT_INV_AB A_TC_15_5_invoke_ccbs			
18		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1,c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			
19		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_BUSY)))			
20		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSBFree_invoke (TSV_CCBSREF))) B_TC_15_5_invoke_ccbs			
21		+ B_CCBS_ACT_INV_AB			
22		A_SCCP_PCO ? TCAP_IND	r_TC_CONTINU E ("CCBS Suspend")		
		A_TC_15_5_2nd_invoke_ccbs			
23		+ A_access_CCBS_Invocation_AB B_TC_15_5_2nd_invoke_ccbs			
24		A_SCCP_PCO ? TCAP_IND	r_TC_CONTINU E ("CCBS Resume")		
25		+ B_CCBS_Invocation_AB A_TC_15_5_setup_ccbs_call_and_release			
26		+ A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			
27		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1)) B_TC_15_5_setup_ccbs_call_and_release			
28		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
29		+ B_SEND (REL_m (TCV_B_cic))			
30		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. <pre> access SPA SPB -----setup-----> -----IAM-----> <----disconnect----- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request---</pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
--CCBS Act response-->
stop CCBS-T1
start CCBS-T2          xxxxTC_BEGIN_REQxxxx->
stop CCBS-T2          <--TC_CONTINUE_INDxxxx  CcbsRequest return result
start CCBS-T3          <--TC_CONTINUE_INDxxxx  RemoteUserFree

stop CCBS-T3
arrange user to be
found busy             xxxxTC_CONTINUE_REQ-->  CcbsSuspend
or CCBS busy
--Receive notification that
the user at SPB is now free,
--Send no response for that
--User A is now free   xxxTC_CONTINUE_REQ-->  CcbsResume
```

1. The access side activates CCBS.
2. Check that the CcbsRequest invocation is received.
3. The user at SPB is now free for a CCBS call.
4. End the TCAP dialogue in order to get an initial state.

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_6_a_Support_of_the_retain_option Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the retain option To verify that the IUT performs the retain option by setting the retainSupported parameter to TRUE or FALSE in the CcbsRequest or in the CcbsRequest return result. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.1.3 m) /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_6_a_busy_call, B_ISUP_PTC2 : B_TC_15_6_a_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_6_a_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_6_a_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_TC_15_6_a_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_TC_15_6_a_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_TC_15_6_a_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_TC_15_6_a_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_TC_15_6_a_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_TC_15_6_a_activate_and_invoke_ccbs			
14		START T_CCBS_T1			
15		+ B_CCBS_Activation_RetainSupported_AB			
16		+ B_RECEIVE_CALL_REL_A_CIC			
17		+ B_CCBS_Invocation_AB A_TC_15_6_a_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBS_Call_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBS_Call invoke component
18		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		B_TC_15_6_a_setup_ccbs_call_and_release			4.
20		+ B_RECEIVE (IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
21		+ B_SEND (REL_m (TCV_B_cic)) + B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
Detailed Comments : Pre-test conditions for OLE Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.					
<p>Case a)</p> <pre>access SPA SPB -----setup-----> -----IAM-----> <-----disconnect---- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request--- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQxxxx-> retainSupported=TRUE stop CCBS-T2 <--TC_CONTINUE_INDxxxx retainSupported=TRUE start CCBS-T3</pre>					
<hr/> <p>1. The access side activates CCBS. 2. Check that the CcbsRequest invocation is received with "RetainSupported =TRUE". 3. End the TCAP dialogue in order to get an initial state.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_6_b_Support_of_the_retain_option Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the retain option To verify that the IUT performs the retain option by setting the retainSupported parameter to TRUE or FALSE in the CcbsRequest or in the CcbsRequest return result. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.1.3 m) / Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_6_b_call_setup, A_ACCESS_PTC : A_15_6_b_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_6_b_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_6_b_activate_ccbs, A_ACCESS_PTC : A_15_6_b_activate_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		B_15_6_b_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_6_b_call_setup			
11		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_6_b_call_setup_to_busy_sc			
12		+ B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
13		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
14		+ B_SEND (RLC_m (TCV_B_cic))			
15		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
16		+ B_SEND (RLC_m (TCV_B_cic))			
17		B_15_6_b_activate_ccbs START T_CCBS_T1			
18		+ B_CCBS_Activation_RetainSupported_BA			
19		+ B_RECEIVE_CALL_REL_A_CIC			
20		A_15_6_b_activate_ccbs + A_access_CCBS_Activation_BA			
Detailed Comments : Pre-test conditions for OLE Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
Case b)		
access	SPA	SPB
set the destination		
B busy		
	<-----IAM-----	
user busy	-----REL----->	
	<-----RLC-----	
	... TCAP transaction ...	
	<--TC_BEGIN_REQxxxx retainSupported=TRUE	
	xxxTC_CONTINUE_IND-> retainSupported=TRUE	
user free	<-----REL-----	
	-----RLC----->	
<hr/>		
1. UNI at SPA becomes busy.		
2. Check that the CcbsRequest invocation is received with "RetainSupported =TRUE".		
3. Free destination B		

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_7_Maximum_number_of_outstanding_CCBS_requests_of_a_user Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Maximum number of outstanding CCBS requests of a user <p>To verify that the IUT does not send any CcbsRequest to the DLE if the maximum number of outstanding requests is reached.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.1.1.1 / Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		(TCV_count0 := 1, TCV_cref := '0000000'B)			
3		REPEAT CCBS_Loop UNTIL [TCV_count0 = TSP_MAX_CCBS_REQUEST]			
4		+ check_idle			
5		+ postamble			
		CCBS_Loop			
6		CREATE (A_ACCESS_PTC : A_TC_15_7_busy_call, B_ISUP_PTC2 : B_TC_15_7_busy_call)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		CREATE (A_ACCESS_PTC : A_TC_15_7_activate_ccbs, B_ISUP_PTC2 : B_TC_15_7_activate_ccbs)			
9		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
10		(TCV_count0 := TCV_count0 + 1, TCV_cref := INT_TO_BIT(BIT_TO_INT (TCV_cref) + 1, 7))			
		A_TC_15_7_busy_call			
11		+ A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TCV_cref), call_proceeding_o_r (TCV_cref), disconnect_o_r (TCV_cref))			
		B_TC_15_7_busy_call			
12		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			
		A_TC_15_7_activate_ccbs			
13		+ A_access_CCBS_ACT_INV_AB			
		B_TC_15_7_activate_ccbs			
14		+ B_CCBS_ACT_INV_AB			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect--- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request--- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQxxxx--> </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

stop CCBS-T2 <--TC_CONTINUE_INDxxxx CcbsRequest return result
start CCBS-T3
 repeat activate CCBS request until the maximum
 number of CCBS request supported by SPA
 check that no CCBS request is send after the specified number of entries

-
1. The access side activates CCBS.
 2. Check that no TC_BEGIN_REQ is sent after the maximum number of CCBS request is reached at SPA.
 3. The test case fails if the maximum number of outstanding requests is reached and CcbsRequest is received.
 4. 4. End the TCAP dialogue in order to get an initial state.

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_8_Maximum_number_of_queue_entries_CCBS_requests Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Maximum number of queue entries CCBS requests <p>To verify that the IUT sends a CcbsRequest return error to the OLE if the maximum number of queue entries is reached.</p> <p>Note: Send CcbsRequest return error in TC-END request(TC-INVOKE request).</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.1.2.2; 3.5.3.5.1; 3.5.5.4 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_8_call_setup, A_ACCESS_PTC : A_15_8_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		(TCV_count0 := 1)			
5		REPEAT CCBS_Loop UNTIL [TCV_count0 = TSP_MAX_CCBS_ENTRIES]			
6		CREATE (B_ISUP_PTC2 : B_15_8_call_setup_to_busy_sc)			
7		? DONE (B_ISUP_PTC2)			
8		(TCV_cic := TSO_NEXT_CIC (TCV_cic))			
9		CREATE (B_ISUP_PTC2 : B_15_8_last_ccbs, A_ACCESS_PTC : A_15_8_last_ccbs)			
10		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
11		+ check_idle			
12		+ postamble			
		CCBS_Loop			
13		(TCV_count0 := TCV_count0 + 1, TCV_cic := TSO_NEXT_CIC (TCV_cic))			
14		CREATE (B_ISUP_PTC2 : B_15_8_call_setup_to_busy_sc)			
15		? DONE (B_ISUP_PTC2)			
16		CREATE (B_ISUP_PTC2 : B_15_8_activate_ccbs, A_ACCESS_PTC : A_15_8_activate_ccbs)			
17		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
		B_15_8_call_setup			
18		+ B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
		A_15_8_call_setup			
19		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
		B_15_8_call_setup_to_busy_sc			
20		+ B_SEND (IAM_s_BA_Called_party_number (TCV_cic))			
21		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_cic))			
22		+ B_SEND (RLC_m (TCV_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
23		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_cic))			
24		+ B_SEND (RLC_m (TCV_cic))			
		B_15_8_activate_ccbs			
25		START T_CCBS_T1			
26		+ B_CCBS_Activation_RetainSupported_BA			
27		+ B_RECEIVE_CALL_REL_A_CIC			
		A_15_8_activate_ccbs			
28		+ A_access_CCBS_Activation_BA			
		B_15_8_last_ccbs			
29		START T_CCBS_T1			
30		+ B_CCBS_Activation_fail_BA			
31		+ B_RECEIVE_CALL_REL_A_CIC			
		A_15_8_last_ccbs			
32		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 17))			
33		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
<p>Detailed Comments : Pre-test conditions</p> <pre> access SPA SPB set the destination B busy User busy <-----IAM----- -----REL-----> <-----RLC----- ... TCAP transaction ... <---xxTC_BEGIN_REQx xxTC_CONTINUE_IND--> CcbsRequest return result ... repeat activate CCBS request until the maximum number of CCBS request supported by the IUT is reached (fill up the queue) <-----IAM----- User busy -----REL-----> <-----RLC----- <---xxTC_BEGIN_REQx xxxxTC_END_IND-----> CcbsRequest return error (short or long term denial) user free <-----REL----- -----RLC-----> </pre> <hr/> <p>1. UNI at SPA becomes busy. 2. Call to get the destination B busy. 3. Check that "CCBS possible" is received in the release message with cause value # 17 or #34. 4. Check that CcbsRequest return error is received in TC_END_IND. 5. Free destination B</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_9_Ability_to_end_a_dialogue Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Ability to end a dialogue <p>To verify that the IUT can end a TCAP dialogue after a successful CCBS call.</p> <p>Note: Send a TC-END request without component primitive upon sending of the ACM, CPG or CON.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.5.4 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_9_call_setup, A_ACCESS_PTC : A_15_9_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_9_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_9_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_9_activate_and_invoke_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		CREATE (A_ACCESS_PTC : A_15_9_setup_ccbs_call, B_ISUP_PTC2 : B_15_9_setup_ccbs_call)			
9		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
10		CREATE (B_ISUP_PTC2 : B_15_9_call_release2, A_ACCESS_PTC : A_15_9_call_release2)			
11		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
12		+ check_idle			
13		+ postamble			
14		B_15_9_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic)) A_15_9_call_setup			
15		+ A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1)) B_15_9_call_setup_to_busy_sc			
16		+ B_SEND (IAM_s_BA_Called_party_number (TCV_cic))			
17		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_cic))			
18		+ B_SEND (RLC_m (TCV_cic))			
19		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		+ B_SEND (RLC_m (TCV_cic))			
		B_15_9_activate_and_invoke_ccbs			
21		+ B_CCBS_ACT_INV_BA			
22		+ B_RECEIVE_CALL_REL_A_CIC			
		A_15_9_activate_and_invoke_ccbs			
23		+ A_access_CCBS_ACT_INV_BA			
		B_15_9_setup_ccbs_call			
24		+ B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
25		+ B_RECEIVE (ACM_r_BA (TCV_B_cic))			
26		+ B_SEND (ANM_r_BA (TCV_B_cic))			
27		A_SCCP_PCO ? TCAP_IND	r_TC_END ("")	(P)	
		A_15_9_setup_ccbs_call			
28		+ A_access_CALL_SETUP_BA (TSV_CREF2, alert_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_ack_o_r (TSV_CREF2))			
		B_15_9_call_release2			
29		+ B_SEND_CALL_REL			
		A_15_9_call_release2			
30		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2))			
<p>Detailed Comments : Pre-test conditions for OLE Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> <pre> access SPA SPB set the destination B busy <-----IAM----- User A busy -----REL-----> <-----RLC----- ... TCAP transaction ... <---xxTC_BEGIN_REQx xxTC_CONTINUE_IND--> CcbsRequest return result : xxTC_CONTINUE_IND--> RemoteUserFree : <-----set up----- <-----IAM----- CCBS call -----ACM-----> xxxTC_END_IND-----> : <-----disconnect----- <-----REL----- </pre> <p>1. UNI at SPA becomes busy. 2. Check that a TC_END_IND primitive without component is received in order to end the CCBS operation.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_10_Initiate_the_CCBS_supplementary_service_even_if_no_diagnostic_is_received_in_the_release_message Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Initiate the CCBS supplementary service even if no diagnostic is received in the release message To verify that the IUT sends a CcbsRequest invoke if the calling user activates the CCBS. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.7.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_10_busy_call, B_ISUP_PTC2 : B_TC_15_10_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_10_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_10_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		CREATE (A_ACCESS_PTC : A_TC_15_10_setup_ccbs_call_and_release, B_ISUP_PTC2 : B_TC_15_10_setup_ccbs_call_and_release)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		A_TC_15_10_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
11		B_TC_15_10_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_m (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
12		A_TC_15_10_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_AB			3.
13		B_TC_15_10_activate_and_invoke_ccbs + B_CCBS_ACT_INV_AB			3.
14		+ B_RECEIVE_CALL_REL_A_CIC			
15		A_TC_15_10_setup_ccbs_call_and_release + A_access_CALL_SETUP_AND_DISC_AB (setup_send_with_component (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSCall_invoke (TCV_inv_id, TSV_CCBSREF)), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			SETUP with Fie CCBSCall invoke component
16		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF1), release_comp_o_s (TCV_flag_dss1, TSV_CREF1)) B_TC_15_10_setup_ccbs_call_and_release			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		+ B_RECEIVE (4.
18		IAM_r_AB_ccbs_fci_isup_required_all_the_way (TCV_B_cic)			
19)			
		+ B_SEND (REL_m (TCV_B_cic))			
		+ B_RECEIVE (RLC_anyvalue (TCV_B_cic))			
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect---- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <--CCBS Act request--- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQxxxx--> stop CCBS-T2 <--TC_CONTINUE_INDxxxx start CCBS-T3 : ----CCBS recall---> -----IAM-----> CCBS call : <-----disconnect---- <-----REL----- : </pre> <hr/> <ol style="list-style-type: none"> 1. The access side activates CCBS. 2. Send a REL without diagnostic "CCBS is possible". 3. Check that the CcbsRequest invocation is received. 4. The user at SPB is now free for a CCBS call. 5. CCBS call set up with ISDN User Part required all the way in the FCI oh the IAM . 					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_11_Support_of_the_retention_timer_T_CCBS_T1 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the retention timer CCBS-T1 <p>To verify that the retention timer CCBS-T1 can be started after receive of a release message with cause value # 17 or # 34 from the DLE and stopped normally after activation of the CCBS supplementary service by the calling user.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.9.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_11_busy_call, B_ISUP_PTC2 : B_TC_15_11_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_11_ccbs_too_late, B_ISUP_PTC2 : B_TC_15_11_ccbs_too_late)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_11_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1)) B_TC_15_11_busy_call			1-2.
9		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic)) A_TC_15_11_ccbs_too_late			1-2.
10		START T_CCBS_T1			
11		? TIMEOUT T_CCBS_T1			
12		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_CCBSRequest_invoke (TCV_inv_id, TCV_call_link_id)))			
13		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 16))			
14		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1)) B_TC_15_11_ccbs_too_late			
15		START T_CCBS_T1			
16		? TIMEOUT T_CCBS_T1			
17		A_SCCP_PCO? OTHERWISE		(F)	
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. <div style="display: flex; justify-content: space-around;"> access SPA SPB </div> <div style="display: flex; justify-content: space-around;"> -----setup-----> -----IAM-----> </div> <div style="display: flex; justify-content: space-around;"> <-----disconnect--- <-----REL----- </div>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
	-----RLC-----> (normal call, user at SPB busy) SPB starts CCBS-T1 and receives nothing until the timer expires
<-----facility----- Act CCBS start CCBS-T1 send nothing until it expires	
<hr/>	
1. The access side activates CCBS after CCBS-T1 runs out. 2. Check that no CCBS request is stored in the queue.	

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_12_Support_of_the_CCBS_request_operation_timer_CCBST2 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the CCBS request operation timer CCBS-T2 <p>To verify that the timer CCBS-T2 can be started after sending of a CcbsRequest to the DLE and stopped normally after receipt of CcbsRequest return result from the DLE. Note: If the timer expires a TC-END with TC-L-CANCEL indication primitive is received from the DLE and the service request is rejected.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.5.4.1 c); 3.9.1 / Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_12_busy_call, B_ISUP_PTC2 : B_TC_15_12_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_12_activate_ccbs, B_ISUP_PTC2 : B_TC_15_12_activate_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_12_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
9		B_TC_15_12_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
10		A_TC_15_12_activate_ccbs + A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_CCBSRequest_invoke (TCV_inv_id, TCV_call_link_id)))			
11		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBS_Erase_invoke (TCV_inv_id, t_CCBS2_timeout)))			
12		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 16))			
13		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
14		B_TC_15_12_activate_ccbs A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1, START T_CCBS_T2	r_TC_BEGIN ("CcbsRequest invoke")		
15		? TIMEOUT T_CCBS_T2			
16		A_SCCP_PCO ! TCAP_REQ CANCEL T_CCBS_T2	s_TC_END ("CcbsRequest return error")		
17		? TIMEOUT T_CCBS_T1			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		A_SCCP_PCO ? OTHERWISE		(F)	
<p>Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect---- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T2 xxxTC_BEGIN_REQ--> SPB starts CCBS-T2 and sends <---TC_ENDxxxxxxxxx TC_END_IND if the timer expires </pre> <hr/> <p>1. The access side activates CCBS. 2. End the TCAP dialogue in order to get an initial state.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_13_Support_of_the_CCBS_service_duration_timer_CCBST3 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the CCBS service duration timer CCBS-T3 <p>To verify that the IUT can successfully deactivate a CCBS request if the CCBS service duration timer CCBS-T3 expires.</p> <p>Note: Send a CcbsCancel invoke with cancelCause to the DLE by using the TCAP primitive TC-END request(TC-INVOKE request) with cancelCause "CCBS-T3 Timeout".</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.1.2.1.2 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_13_busy_call, B_ISUP_PTC2 : B_TC_15_13_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_13_activate_ccbs, B_ISUP_PTC2 : B_TC_15_13_activate_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_13_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			1-2.
9		B_TC_15_13_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			1-2.
10		A_TC_15_13_activate_ccbs + A_access_CCBS_Activation_AB			3.
11		B_TC_15_13_activate_ccbs			
12		START T_CCBS_T1			
13		+ B_CCBS_Activation_AB			
14		? TIMEOUT T_CCBS_T3			
15		+ B_CCBS_Invocation_AB A_SCCP_PCO ? TCAP_IND	r_TC_END ("timeout CCBS-T3")	(P)	
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect--- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... </pre>					

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Test Case Dynamic Behaviour		
Detailed Comments : ...		
start CCBS-T2	xxxxTC_BEGIN_REQ-->	CcbsRequest invoke
stop CCBS-T2	<---TC_CONT_INDxxxx	CcbsRequest return result
start CCBS-T3		
starts CCBS-T3 and sends TC_CONTINUE_IND with RemoteUserFree if it expires		
	<---TC_CONT_INDxxxxx	RemoteUserFree
	xxxxxTC_END_REQ----->	TC_END_IND with CancelCause
		"timeout CCBS-T3"
<hr/>		
1. The access side activates CCBS.		
2. After CCBS-T3 timer expiry the IUT shall send the the CancelCause "CCBS-T3 timeout" in a TC_END.		

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_14_Support_of_the_CCBS_recall_timer_T_CCBS_T4 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the CCBS recall timer CCBS-T4 <p>To verify that the timer CCBS-T4 can be stopped after receiving an indication from the user for a CCBS recall.</p> <p>Note: CCBS-T4 contains the maximum time the network will wait for the calling user A to respond to a CCBS recall. The OLE sends a CcbsCancel invoke in TC-END request to the DLE in case of CCBS-T4 expiry.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.2.1.2 ii); 3.9.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_14_busy_call, B_ISUP_PTC2 : B_TC_15_14_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_14_activate_and_invoke_ccbs, B_ISUP_PTC2 : B_TC_15_14_activate_and_invoke_ccbs)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_14_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1)) B_TC_15_14_busy_call			1-2.
9		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic)) A_TC_15_14_activate_and_invoke_ccbs			1-2.
10		+ A_access_CCBS_ACT_INV_AB B_TC_15_14_activate_and_invoke_ccbs			3.
11		+ B_CCBS_ACT_INV_AB			3.
12		? TIMEOUT T_CCBS_T4			
13		A_SCCP_PCO ? TCAP_IND	r_TC_END ("timeout CCBS-T4")	(P)	
14		A_SCCP_PCO? OTHERWISE		(F)	
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.					
<pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect--- <-----REL----- -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T2 xxxxTC_BEGIN_REQ--> CcbsRequest invoke </pre>					

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Test Case Dynamic Behaviour	
Detailed Comments : ...	
start CCBS-T3	<---TC_CONT_INDxxxx CcbsRequest return result
:	
	<---TC_CONT_INDxxxx RemoteUserFree
	SPB starts CCBS-T4 and receives
TC_END_IND with CancelCause if it expires	
xxxxTC_END_REQ----->	TC_END_IND with CancelCause
	"timeout CCBS-T3"
<hr/>	
1. The access side activates CCBS and does not accept the CCBS recall within CCBS-T4.	
2. Check that the CancelCause "CCBS-T4 timeout is received in a TC_END.	

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_15_Reject_a_second_identical_activation_of_CCBS Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Reject a second identical activation of CCBS <p>To verify that the IUT does not send any CcbsRequest to the DLE if a second identical activation of CCBS is done.</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.3.1.2 b) i)/Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_15_busy_call, B_ISUP_PTC2 : B_TC_15_15_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_15_activate_twice, B_ISUP_PTC2 : B_TC_15_15_activate_twice)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_15_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1)) B_TC_15_15_busy_call			
9		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic)) A_TC_15_15_activate_twice			
10		+ A_access_CCBS_Activation_AB			
11		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_CCBSRequest_invoke (TCV_inv_id, TCV_call_link_id)))			
12		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSRequest_return_result (TCV_inv_id))) B_TC_15_15_activate_twice			
13		+ B_CCBS_Activation_AB			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling user subscribes to CCBS supplementary service. <pre> access SPA SPB -----setup-----> -----IAM-----> <----disconnect---- <-----REL----- -----RLC-----> (1st normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <---CCBS Act request---- --CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQ--> </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
stop CCBS-T2          <--TC_CONTINUE_INDx
start CCBS-T3
:
-----setup----->  -----IAM----->
<-----disconnect-----  <-----REL-----
                        -----RLC-----> (2nd normal call, user at SPB busy)
:
```

-
1. The access side activates CCBS.
 2. First call to busy user at SPB.
 3. Check that the CcbsRequest invocation is received.
 4. Second identical call from the IUT to the same SPB.
 5. End the TCAP dialogue.

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_16_Treat_a_second_identical_activation_of_CCBS_as_a_new_request Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Treat a second identical activation of CCBS as a new request To verify that the IUT treats a second identical activation of CCBS as a new request. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.3.1.2 b) ii)/Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_16_busy_call, B_ISUP_PTC2 : B_TC_15_16_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		CREATE (A_ACCESS_PTC : A_TC_15_16_activate_twice, B_ISUP_PTC2 : B_TC_15_16_activate_twice)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
6		+ check_idle			
7		+ postamble			
8		A_TC_15_16_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1)) B_TC_15_16_busy_call			
9		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic)) A_TC_15_16_activate_twice			
10		+ A_access_CCBS_Activation_AB			
11		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_CCBSRequest_invoke (TCV_inv_id, TCV_call_link_id)))			
12		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSRequest_return_result (TCV_inv_id))) B_TC_15_16_activate_twice			
13		+ B_CCBS_Activation_AB			
14		+ B_CCBS_Activation_AB			
Detailed Comments : Pre-test conditions Arrange the data in the IUT so that the calling user subscribes to CCBS supplementary service. <pre> access SPA SPB -----setup-----> -----IAM-----> <-----disconnect----- <-----REL----- -----RLC-----> (1st normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 -- <---CCBS Act request--- ---CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQ--> </pre>					

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
stop CCBS-T2          <---TC_CONTINUE_INDx
start CCBS-T3
:
-----setup-----> -----IAM----->
<-----disconnect----- <-----REL-----
                        -----RLC-----> (2nd normal call, user at SPB busy)
... TCAP transaction ...
start CCBS-T1  --
<---CCBS Act request---
---CCBS Act response-->
stop CCBS-T1
start CCBS-T2          xxxxTC_BEGIN_REQ-->
stop CCBS-T2          <---TC_CONTINUE_INDx
start CCBS-T3
:
```

-
1. The access side activates CCBS.
 2. First call to busy user at SPB.
 3. Check that the CcbsRequest invocation is received.
 4. Second identical call from the IUT to the same SPB.
 5. Second identical activation of the CCBS request.
 6. End the TCAP dialogue.

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_17_Support_of_the_CCBS_service_supervision_timer_CCBST7 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the CCBS service supervision timer CCBS-T7 <p>To verify that the IUT deactivates the CCBS-request if CCBS-T7 expires.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. CCBS-T7 is started after sending a CcbsRequest return result to the OLE 2. CCBS-T7 is stopped after the destination B becomes not busy, before sending RemoteUserFree to the OLE. 3. Send a CcbsCancel invoke in a TC-END request(TC-INVOKE request) with cancelCause "CCBS-T7 Timeout". Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.1.2.2.2 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_17_call_setup, A_ACCESS_PTC : A_15_17_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_17_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_17_activate_ccbs, A_ACCESS_PTC : A_15_17_activate_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		B_15_17_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
11		A_15_17_call_setup + A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
12		B_15_17_call_setup_to_busy_sc + B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
13		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
14		+ B_SEND (RLC_m (TCV_B_cic))			
15		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
16		+ B_SEND (RLC_m (TCV_B_cic))			
17		B_15_17_activate_ccbs + B_CCBS_Activation_BA			
18		+ B_RECEIVE_CALL_REL_A_CIC			
19		? TIMEOUT T_CCBS_T7			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		A_SCCP_PCO ? TCAP_IND	r_TC_END ("CCBS-T7 Timeout")	(P)	
		A_15_17_activate_ccbs			
21		+ A_access_CCBS_Activation_BA			
Detailed Comments : Pre-test conditions					
<div><div>access</div><div>SPA</div><div>SPB</div><div>set the destination</div><div>B busy</div><div>user busy</div><div>... TCAP transaction ...</div><div>TC_END_IND with CancelCause</div><div>user free</div><div><-----IAM-----</div><div>-----REL-----></div><div><-----RLC-----</div><div><---xxTC_BEGIN_REQx</div><div>xxTC_CONTINUE_IND--></div><div>CcbsRequest return result</div><div>SPB starts CCBS-T7 and receives</div><div>"CCBS-T7 Timeout" if it expires</div><div>xxxxxTC_END_IND--></div><div><-----REL-----</div><div>-----RLC-----></div></div>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_18_Support_of_the_destination_B_idle_guard_timer_CCBST8 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the destination B idle guard timer CCBS-T8 To verify that no resources are available at the destination B side until timer CCBS-T8 expires. Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.3.1.5 a); 3.9.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_18_call_setup, A_ACCESS_PTC : A_15_18_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_18_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_18_activate_ccbs, A_ACCESS_PTC : A_15_18_activate_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		(TCV_timer_running := TRUE) START T_CCBS_T8			
9		REPEAT CCBS_Loop UNTIL [TCV_timer_running]			
10		CREATE (B_ISUP_PTC2 : B_15_18_invoke_ccbs, A_ACCESS_PTC : A_15_18_invoke_ccbs)			
11		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
12		CREATE (A_ACCESS_PTC : A_15_18_setup_ccbs_call, B_ISUP_PTC2 : B_15_18_setup_ccbs_call)			
13		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
14		CREATE (B_ISUP_PTC2 : B_15_18_call_release2, A_ACCESS_PTC : A_15_18_call_release2)			
15		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
16		+ check_idle			
17		+ postamble			
		CCBS_Loop			
18		CREATE (B_ISUP_PTC2 : CCBS_Inner_loop)			
19		? DONE (B_ISUP_PTC2)			
		CCBS_Inner_loop			
20		(TCV_cic := TSO_NEXT_CIC (TCV_cic))			
21		+ B_SEND (IAM_s_BA_Called_party_number (TCV_cic))			
22		+ B_RECEIVE (REL_anyvalue (TCV_cic))			
23		+ B_SEND (RLC_m (TCV_cic))			
24		? TIMEOUT T_CCBS_T8 (TCV_timer_running := FALSE)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
25		B_15_18_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
26		A_15_18_call_setup + A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
27		B_15_18_call_setup_to_busy_sc + B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
28		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
29		+ B_SEND (RLC_m (TCV_B_cic))			
30		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
31		+ B_SEND (RLC_m (TCV_B_cic))			
32		B_15_18_activate_ccbs + B_CCBS_Activation_BA			
33		+ B_RECEIVE_CALL_REL_A_CIC			
34		A_15_18_activate_ccbs + A_access_CCBS_Activation_BA			
35		B_15_18_invoke_ccbs + B_CCBS_Invocation_BA			
36		A_15_18_invoke_ccbs			
37		START T_CCBS_T8			
38		? TIMEOUT T_CCBS_T8 + A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1,c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			
39		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1,c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_FREE)))			
40		A_ACCESS_PCO ? OTHERWISE		(F)	
41		B_15_18_setup_ccbs_call + B_SEND (IAM_s_BA_ccbs_fci_isup_required_all_the_way (TCV_B_cic))			
42		+ B_RECEIVE (ACM_r_BA (TCV_B_cic))			
43		+ B_RECEIVE (ANM_r_BA (TCV_B_cic))			
44		A_15_18_setup_ccbs_call + A_access_CALL_SETUP_BA (TSV_CREF2, alert_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_o_s (TCV_flag_dss1_2, TSV_CREF2), connect_ack_o_r (TSV_CREF2))			
45		B_15_18_call_release2 + B_SEND_CALL_REL			
		A_15_18_call_release2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
46		+ A_access_RECEIVE_CALL_REL (release_o_r (TCV_flag_dss1, TSV_CREF2), release_comp_o_s (TCV_flag_dss1_2, TSV_CREF2))			
<p>Detailed Comments : Pre-test conditions</p> <p>access SPA SPB</p> <p>set the destination</p> <p>B busy</p> <p>user busy</p> <p>... TCAP transaction ...</p> <p> <---xxTC_BEGIN_REQx CcbsRequest</p> <p> xxTC_CONTINUE_IND--> CcbsRequest return result</p> <p>:</p> <p>User is now free</p> <p>SPB starts timers CCBS-T8</p> <p>SPB checks every second that no resources</p> <p>are available by using T_Local timer</p> <p> <-----IAM-----</p> <p> -----REL-----></p> <p> <-----RLC-----</p> <p>:</p> <p><-----setup----- <-----IAM----- CCBS-T8 expires</p> <p>-----alert-----> -----ACM-----></p> <p>-----connect-----> -----ANM-----></p> <p>:</p> <p>1. Check that no resources are available within CCBS-T8, e.g., send an IAM and receiving a REL.</p> <p>2. Check that resources are now available by sending an IAM and receiving an ACM, etc.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_V_15_19_Support_of_the_DLE_recall_timer_CCBST9 Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the DLE recall timer CCBS-T9 <p>To verify that the timer CCBS-T9 can be started after sending of a TC-CONTINUE with RemoteUserFree from the DLE and stopped after CCBS call is received from the OLE.</p> <p>Note: Send a CcbsCancel invoke in a TC-END request(TC-INVOKE request) with cancelCause "CCBS-T9 Timeout".</p> Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference3.5.3.5.2 d); 3.9.1 /Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (B_ISUP_PTC2 : B_15_19_call_setup, A_ACCESS_PTC : A_15_19_call_setup)			
3		? DONE (B_ISUP_PTC2, A_ACCESS_PTC)			
4		CREATE (B_ISUP_PTC2 : B_15_19_call_setup_to_busy_sc)			
5		? DONE (B_ISUP_PTC2)			
6		CREATE (B_ISUP_PTC2 : B_15_19_activate_and_invoke_ccbs, A_ACCESS_PTC : A_15_19_activate_and_invoke_ccbs)			
7		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
8		+ check_idle			
9		+ postamble			
10		B_15_19_call_setup + B_CALL_SETUP_BA (IAM_s_BA_Called_party_number (TCV_A_cic), ACM_r_BA (TCV_A_cic), ANM_r_BA (TCV_A_cic))			
11		A_15_19_call_setup + A_access_CALL_SETUP_BA (TSV_CREF1, alert_o_s (TCV_flag_dss1, TSV_CREF1), connect_o_s (TCV_flag_dss1, TSV_CREF1), connect_ack_o_r (TSV_CREF1))			
12		B_15_19_call_setup_to_busy_sc + B_SEND (IAM_s_BA_Called_party_number (TCV_B_cic))			
13		+ B_RECEIVE (REL_r_BA_Cause17_CCBS_possible (TCV_B_cic))			
14		+ B_SEND (RLC_m (TCV_B_cic))			
15		+ B_RECEIVE (REL_r_BA_Cause34_CCBS_possible (TCV_B_cic))			
16		+ B_SEND (RLC_m (TCV_B_cic))			
17		B_15_19_activate_and_invoke_ccbs + B_CCBS_ACT_INV_BA			
18		? TIMEOUT T_CCBS_T9			
19		A_SCCP_PCO ? TCAP_IND	r_TC_END ("CCBS-T9 Timeout")	(P)	
20		+ B_RECEIVE_CALL_REL_A_CIC			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		A_15_19_activate_and_invoke_ccbs + A_access_CCBS_ACT_INV_BA			
<p>Detailed Comments : Pre-test conditions</p> <pre> access SPA SPB set the destination B busy <-----IAM----- user busy -----REL-----> <-----RLC----- ... TCAP transaction ... <---xxTC_BEGIN_REQx xxTC_CONTINUE_IND--> CcbsRequest return result : xxTC_CONTINUE_IND--> RemoteUserFree SPB starts CCBS-T9 and receives TC_END_IND with CancelCause "CCBS-T9 Timeout" if it expires xxxxxTC_END_IND----> user free <-----REL----- -----RLC-----> </pre> <hr/> <p>1. Check that the CancelCause "CCBS-T9 timeout" is received in a TC_END. 2. Free destination B.</p>					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_20_Support_of_the_interworking_supervision_timer_TSUP Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : Support of the interworking supervision timer TSUP <p>To verify that the timer TSUP is used correctly in case of interworking with a private network.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The DLE sends a CcbsCancel invoke in TC-END request to the OLE without cancelCause in case of TSUP timer expiry. 2. The OLE sends a CcbsCancel invoke in TC-END request to the DLE without cancelCause in case of TSUP timer expiry. Configuration : MTC_and_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 3.7.7.3.3.1; 3.7.7.3.3.2; 3.9.3 / Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ISUP_PTC : A_TC_15_20_busy_call, B_ISUP_PTC : B_TC_15_20_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC : A_TC_15_20_dialog, B_ISUP_PTC : B_TC_15_20_dialog)			
5		? DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+ check_idle			
7		+ postamble			
		A_TC_15_20_busy_call			
8		+ A_SEND (IAM_s_AB (TCV_A_cic))			
9		+ A_RECEIVE (REL_r_AB_Cause_17 (TCV_A_cic))			
10		+ A_SEND (RLC_m (TCV_A_cic))			
		B_TC_15_20_busy_call			
11		+ B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_s_BA_Cause_17 (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			
		A_TC_15_20_dialog			
12		A_SCCP_PCO ! TCAP_REQ	s_TC_BEGIN ("CcbsRequest invoke")		
		B_TC_15_20_dialog			
13		A_SCCP_PCO ? TCAP_IND START T_CCBS_T_SUP	r_TC_BEGIN ("CcbsRequest invoke")		
14		? TIMEOUT T_CCBS_T_SUP CANCEL T_CCBS_T_SUP			
15		A_SCCP_PCO ? TCAP_IND	r_TC_END ("CcbsDeactivation invoke")	(P)	
Detailed Comments : Pre-test conditions for OLE Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. <div style="text-align: center;"> SPC SPA SPB (private network) -----IAM-----> -----IAM-----> <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> (normal call, user at SPB busy) ... TCAP transaction ... </div>					

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Test Case Dynamic Behaviour					
Detailed Comments : ... xxxTC_BEGIN_REQ--> xxTC_BEGIN_REQ--> SPB starts T_SUP and sends no CcbsRequest return result within T_SUP xxxTC_END_REQ----> TC_END_IND without CancelCause <hr/> 1. Check that a TC_END without CancelCause is received.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_TC_I_15_21_CCBS_REQUEST_not_invoked Group : ISUP_Supplementary_Services/ISS_15_CCBS/CCBS_ASE/ Purpose : CCBS REQUEST not invoked To verify that if a call is released with a cause other than #17 or #34, then no CCBS REQUEST shall be sent from the OLE to the DLE Configuration : MTC_and_ISUP_TCAP_and_access_PTCs Default : Comments : ISUP 97 reference 3.5.1.1.1/Q.733.3					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ACCESS_PTC : A_TC_15_1_busy_call, B_ISUP_PTC2 : B_TC_15_1_busy_call)			
3		? DONE (A_ACCESS_PTC, B_ISUP_PTC2)			
4		+check_idle			
5		+postamble			Sets final verdict
6		A_TC_15_1_busy_call + A_access_CALL_SETUP_AND_DISC_AB (setup_no_calling_party_number (TCV_flag_dss1, TSV_CREF1), call_proceeding_o_r (TSV_CREF1), disconnect_o_r (TSV_CREF1))			
7		B_TC_15_1_busy_call + B_CALL_SETUP_AND_DISC_AB (IAM_r_AB (TCV_B_cic), REL_m (TCV_B_cic), RLC_anyvalue (TCV_B_cic))			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. access SPA SPB -----setup-----> -----IAM-----> <-----disconnect--- <-----REL-----> -----RLC-----> <hr/> 1. The access side shouldnt activate CCBS. 2. Release call with a cause other than #17 or #34.					

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_1_Served_user_initiates_3PTY Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user initiates 3PTY <p>To verify that the IUT, where the served user with two active calls is located, can successfully join these calls to form a three-way conversation, and notify the implied remote parties accordingly.</p> <p>The IUT should send CPG messages with the generic notification indicator set to "conference established" to both implied parties. The event indicator in the CPG should be set to "progress".</p> <p>The notification should be independent of the call set up direction of the two calls; i.e. it should apply to all of the following scenarios :</p> <p>A -->B ; AB ; A<-- B A -->C ; A -->C ; A<-- C ; A<-- C</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference2.4; 2.2.1 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)		1	
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)		2	
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))		3	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		U_16_1_call_release +A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			5
18		A_16_1_call_setup +A_CALL_SETUP_RECEIVE_DEFAULT			
19		A_16_1_receive_threpty_start +A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
20		+check_3PTY_communication			4
21		A_16_1_threpty_action +A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_A_cic))			
22		A_16_1_call_release +A_RECEIVE_CALL_REL			
23		B_16_1_call_setup +B_CALL_SETUP_RECEIVE_DEFAULT			
24		B_16_1_receive_threpty_start +B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
25		+check_3PTY_communication			
26		B_16_1_threpty_action +B_SEND_CALL_REL			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT such that the served user subscribes to the 3PTY and HOLD supplementary services.

```

      SPC              SPA              SPB
              -----IAM----->
              <-----ACM-----
              <-----ANM-----
              -----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----  -----CPG----->
      conf est              conf est
      ... 3PTY communication ...
<-----CPG-----  <-----REL-----
      conf disc              -----RLC----->
<-----REL-----
-----RLC----->

```

```

      SPA              IUT              SPB
              -----IAM----->
              <-----ACM-----
              <-----ANM-----
              -----CPG----->  check held state

<-----IAM-----
-----ACM----->

```

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----ANM----->
<-----CPG-----> -----CPG----->
      conf est           conf est
      ... 3PTY communication ...
<-----CPG-----> <-----REL----->
      conf disc       -----RLC----->
<-----REL----->
-----RLC----->
```

1. Set up a first call from access to SPB and put it on hold.
2. Set up a second call from access to SPC.
3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
4. Check the 3PTY communication through the three-party bridge between users from UNI at SPB and SPA.
5. Release the call from UNI at SPB.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_2_a_Served_user_creates_a_private_communication_with_a_remote_user Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user creates a private communication with a remote user To verify that the IUT (controlling the conference) on a 3PTY call can successfully create private communication with one of the remote users. The appropriate notification (depending on A-B active-held or A-C active-idle connection) is sent in CPG messages to the two users. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.3 a) /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))			3
17		U_16_1_threpty_action +A_access_SEND (disconnect_o_s (0, TSV_CREF1, 16, c_EndPTY3inv(TCV_inv_id))) U_16_1_call_release			5

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
18		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			6
		A_16_1_call_setup			
19		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threeparty_start			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
21		+check_3PTY_communication			
		A_16_1_threeparty_action			4
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_A_cic))			
		A_16_1_call_release			
23		+A_RECEIVE_CALL_REL			
		B_16_1_call_setup			
24		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threeparty_start			
25		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
26		+check_3PTY_communication			
		B_16_1_threeparty_action			
27		+A_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			
28		+B_RECEIVE (CPG_r_BA_Generic_notification_ind_hold (TCV_B_cic))			
29		+B_SEND_CALL_REL			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT such that the served user subscribes to the 3PTY and HOLD supplementary services.

Case a)

```

SPC          SPA          SPB
          -----IAM----->
          <-----ACM-----
          ... ringing tone ...
          <-----ANM-----
          check communication
          -----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----> -----CPG----->
      conf est          conf est
      ... 3PTY communication ...
<-----CPG-----> -----CPG----->
      conf disc          conf disc
          -----CPG----->  check remote hold
          <-----REL-----
          -----RLC----->

```

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Test Case Dynamic Behaviour

Detailed Comments : ...

<-----REL-----
 -----RLC----->

Case a)

SPA	IUT	SPB
	-----IAM----->	
	<-----ACM-----	
	... ringing tone ...	
	<-----ANM-----	
	check communication	
	-----CPG----->	check held state
<-----IAM-----		
-----ACM----->		
-----ANM----->		
<-----CPG-----	-----CPG----->	
conf est	conf est	
... 3PTY communication ...		
<-----CPG-----	-----CPG----->	
conf disc	conf disc	
	-----CPG----->	check remote hold
	<-----REL-----	
	-----RLC----->	
<-----REL-----		
-----RLC----->		

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Disconnect the 3PTY call.
 6. Check the held state at SPB.
 7. Release the held call.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_2_b_Served_user_creates_a_private_communication_with_a_remote_user Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user creates a private communication with a remote user <p>To verify that the IUT (controlling the conference) on a 3PTY call can successfully create private communication with one of the remote users. The appropriate notification (depending on A-B active-held or A-C active-idle connection) is sent in CPG messages to the two users.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.3 a) /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))			3
17		U_16_1_threpty_action +A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			5
18		+A_access_SEND (retrieve_o_s (TCV_flag_dss1,TSV_CREF1))			6

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF2))			
		U_16_1_call_release			
20		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			7
		A_16_1_call_setup			
21		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threpty_start			
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
23		+check_3PTY_communication			
		A_16_1_threpty_action			
24		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_A_cic))			
25		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_hold (TCV_A_cic))			
		A_16_1_call_release			
26		+A_RECEIVE_CALL_REL			
		B_16_1_call_setup			
27		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threpty_start			
28		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
29		+check_3PTY_communication			4
		B_16_1_threpty_action			
30		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			
31		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			
32		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user subscribes to the 3PTY and HOLD supplementary services. Case b) SPC SPA SPB -----IAM-----> <-----ACM----- ... ringing tone ... <-----ANM----- check communication -----CPG-----> check held state <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG-----> -----CPG-----> conf est conf est					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

... 3PTY communication ...
<-----CPG----->
  conf disc      remote hold
<-----CPG----->
  remote hold    conf disc
                  <-----REL----->
                  -----RLC----->

<-----REL----->
-----RLC----->

Case b)
SPA          IUT          SPB
              -----IAM----->
              <-----ACM----->
              ... ringing tone ...
              <-----ANM----->
              check communication
              -----CPG-----> check held state

<-----IAM----->
-----ACM----->
-----ANM----->
<-----CPG----->
  conf est      conf est
... 3PTY communication ...
<-----CPG----->
  conf disc      remote hold
<-----CPG----->
  remote hold    conf disc
                  <-----REL----->
                  -----RLC----->

<-----REL----->
-----RLC----->

```

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Check Remote hold at SPB with which private communication is required.
 6. Check conference disconnected after retrieving the held call.
 7. Release the retrieved call.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_3_a_Served_user_disconnects_one_remote_user_and_retains_the_other Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user disconnects one remote user and retains the other To verify that the IUT (controlling the conference) on a 3PTY call can successfully disconnect one remote user and retain and notify the other user appropriately using CPG messages. The IUT should send to the appropriate remote users CPG messages with generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG should be set to "progress". Note: The "remote hold" notification should be sent in a CPG to the remaining remote user, followed by the "conference disconnected" notification in a separate CPG. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.3 b) /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (B_ISUP_PTC:B_16_1_call_release)			
11		?DONE (B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id))) U_16_1_threpty_action			3

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			5
18		+A_access_SEND (disconnect_without_component (0, TSV_CREF1, 16))			
		A_16_1_call_setup			
19		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threpty_start			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			4
21		+check_3PTY_communication			
		A_16_1_threpty_action			
22		+A_RECEIVE_CALL_REL			
		B_16_1_call_setup			
23		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threpty_start			
24		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
25		+check_3PTY_communication			
		B_16_1_threpty_action			
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			
27		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			
		B_16_1_call_release			
28		+B_SEND_CALL_REL			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

Case a)

```

SPC                      SPA                      SPB
                        -----IAM----->
                        <-----ACM-----
                        <-----ANM-----
                        -----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----  -----CPG----->
      conf est          conf est
      ... 3PTY communication ...

<-----REL-----  -----CPG----->
-----RLC----->  remote hold
                  -----CPG----->
                  conference disconnected
                  <-----REL-----
                  -----RLC----->

```

Case a)

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Test Case Dynamic Behaviour

Detailed Comments : ...

SPA	IUT	SPB
	-----IAM----->	
	<-----ACM-----	
	<-----ANM-----	
	-----CPG----->	check held state
<-----IAM-----		
-----ACM----->		
-----ANM----->		
<-----CPG-----	-----CPG----->	
conf est	conf est	
... 3PTY communication ...		
<-----REL-----	-----CPG----->	
-----RLC----->	remote hold	
	-----CPG----->	
	conference disconnected	
	<-----REL-----	
	-----RLC----->	

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Check Remote hold at SPB after.
 6. Check conference disconnected after retrieving the held call.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_3_b_Served_user_disconnects_one_remote_user_and_retains_the_other Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user disconnects one remote user and retains the other To verify that the IUT (controlling the conference) on a 3PTY call can successfully disconnect one remote user and retain and notify the other user appropriately using CPG messages. The IUT should send to the appropriate remote users CPG messages with generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG should be set to "progress". Note: The "remote hold" notification should be sent in a CPG to the remaining remote user, followed by the "conference disconnected" notification in a separate CPG. Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.3 b) /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2) U_16_1_threpty_start			2

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id))) U_16_1_threpty_action			3
17		+A_access_SEND (disconnect_without_component (0, TSV_CREF1,16)) U_16_1_call_release			
18		+A_access_SEND (disconnect_o_s (0, TSV_CREF1, 16, c_EndPTY3inv(TCV_inv_id))) A_16_1_call_setup			5
19		+A_CALL_SETUP_RECEIVE_DEFAULT A_16_1_receive_threpty_start			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
21		+check_3PTY_communication A_16_1_threpty_action			4
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_A_cic)) A_16_1_call_release			
23		+A_RECEIVE_CALL_REL B_16_1_call_setup			
24		+B_CALL_SETUP_RECEIVE_DEFAULT B_16_1_receive_threpty_start			
25		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
26		+check_3PTY_communication B_16_1_threpty_action			
27		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions
Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

Case b)

SPC	SPA	SPB
	-----IAM----->	
	<-----ACM-----	
	<-----ANM-----	
	-----CPG----->	check held state
<-----IAM-----		
-----ACM----->		
-----ANM----->		
<-----CPG-----	-----CPG----->	
conf est	conf est	
... 3PTY communication ...		
<-----CPG-----	-----REL----->	
conf disc	<-----RLC-----	
<-----REL-----		
-----RLC----->		

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Continued from previous page

Test Case Dynamic Behaviour

Detailed Comments : ...

```

Case b)
SPA                IUT                SPB
                -----IAM----->
                <-----ACM-----
                <-----ANM-----
                -----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG----- -----CPG----->
      conf est                conf est
      ... 3PTY communication ...
<-----CPG----- -----REL----->
      conf disc      <-----RLC-----
<-----REL-----
-----RLC----->

```

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. The user at SPB is released with Cause #16 – Normal call clearing.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_4_a_Served_user_disconnects_both_remote_users_and_terminates_the_call Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user disconnects both remote users and terminates the call To verify that the IUT (controlling the conference) can send the appropriate notification to the two remote users when disconnecting both remote users on the 3PTY call. The IUT should send to the appropriate remote users a CPG with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG is set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.3 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threeparty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threeparty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threeparty_start, A_ISUP_PTC:A_16_1_receive_threeparty_start, B_ISUP_PTC:B_16_1_receive_threeparty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threeparty_action, A_ISUP_PTC:A_16_1_threeparty_action, B_ISUP_PTC:B_16_1_threeparty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, B_ISUP_PTC:B_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threeparty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threeparty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
16		U_16_1_threeparty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id))) U_16_1_threeparty_action			3

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		+A_access_SEND (disconnect_without_component (0, TSV_CREF2,16))			
		U_16_1_call_release			
18		+A_access_SEND (disconnect_without_component (0, TSV_CREF1,16))			6
		A_16_1_call_setup			
19		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threpty_start			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
21		+check_3PTY_communication			4
		A_16_1_threpty_action			
22		+A_RECEIVE_CALL_REL			
		B_16_1_call_setup			
23		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threpty_start			
24		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
25		+check_3PTY_communication			
		B_16_1_threpty_action			
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
27		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			5
		B_16_1_call_release			
28		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.					
Case a) SPC SPA SPB <-----IAM-----> <-----ACM-----> <-----ANM-----> <-----CPG-----> check held state <-----IAM-----> -----ACM-----> -----ANM-----> <-----CPG-----> -----CPG-----> conf est conf est ... 3PTY communication ... <-----REL-----> -----CPG-----> -----RLC-----> remote hold -----REL-----> <-----RLC----->					
Case a) SPA IUT SPB					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

-----IAM----->
<-----ACM-----
<-----ANM-----
-----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----  -----CPG----->
      conf est              conf est
      ... 3PTY communication ...

<-----REL-----  -----CPG----->
-----RLC----->      remote hold
      -----REL----->
      <-----RLC-----

```

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPC.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Check Remote hold as a reaction to first releasing user at SPA.
 6. Check that Release is received at SPB with Cause #16 – Normal call clearing.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_4_b_Served_user_disconnects_both_remote_users_and_terminates_the_call Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user disconnects both remote users and terminates the call To verify that the IUT (controlling the conference) can send the appropriate notification to the two remote users when disconnecting both remote users on the 3PTY call. The IUT should send to the appropriate remote users a CPG with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG is set to "progress". Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.1.1.3 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id))) U_16_1_threpty_action			3

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		+A_access_SEND (disconnect_without_component (0, TSV_CREF1,16))			
		U_16_1_call_release			
18		+A_access_SEND (disconnect_without_component (0, TSV_CREF2,16))			5
		A_16_1_call_setup			
19		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threpty_start			
20		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
21		+check_3PTY_communication			4
		A_16_1_threpty_action			
22		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
		A_16_1_call_release			
23		+A_RECEIVE_CALL_REL			
		B_16_1_call_setup			
24		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threpty_start			
25		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
26		+check_3PTY_communication			
		B_16_1_threpty_action			
27		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

Case b)

```

SPC                SPA                SPB
                -----IAM----->
                <-----ACM-----
                <-----ANM-----
                -----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----  -----CPG----->
      conf est          conf est
      ... 3PTY communication ...
<-----CPG-----  -----REL----->
      conf disc      <-----RLC-----
<-----REL-----
-----RLC-----

```

Case b)

```

SPA                IUT                SPB
                -----IAM----->
                <-----ACM-----
                <-----ANM-----

```

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```

                                -----CPG----->  check held state
<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----  -----CPG----->
      conf est          conf est
      ... 3PTY communication ...
<-----CPG-----  -----REL----->
      conf disc        <-----RLC-----
<-----REL-----
-----RLC-----
```

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Check that Release is received at SPB with Cause #16 – Normal call clearing.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_5_a_Remote_user_disconnects_3PTY_call Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Remote user disconnects 3PTY call <p>To verify that the IUT (controlling the conference) can successfully continue the 3PTY call after receiving disconnection by one of the remote users, and send the appropriate notification to the remaining party.</p> <p>The IUT should send to the other remote user CPG with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG is set to "progress".</p> <p>Note: The "remote hold" notification should be sent in a CPG to the other remote user, followed by the "conference disconnected" notification in a separate CPG.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.2.1 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, B_ISUP_PTC:B_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
		U_16_1_threpty_start			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
16		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))			3
		U_16_1_threpty_action			
17		+A_access_SEND (retrieve_o_s (0,TSV_CREF1))			
		U_16_1_call_release			
18		+A_access_SEND (disconnect_without_component (0, TSV_CREF1,16))			7
		A_16_1_call_setup			
19		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threpty_start			
20		+A_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_A_cic))			
21		+check_3PTY_communication			4
		A_16_1_threpty_action			
22		+A_SEND_CALL_REL			
		B_16_1_call_setup			
23		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threpty_start			
24		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
25		+check_3PTY_communication			
		B_16_1_threpty_action			
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			5
27		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			6
		B_16_1_call_release			
28		+B_RECEIVE_CALL_REL			
Detailed Comments : Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA SPB -----IAM-----> <-----ACM----- <-----ANM----- -----CPG-----> check held state <-----IAM----- -----ACM-----> -----ANM-----> <-----CPG-----> -----CPG-----> conf est conf est ... 3PTY communication ... -----REL-----> -----CPG-----> <-----RLC----- remote hold -----CPG-----> conf disc					

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Test Case Dynamic Behaviour

Detailed Comments : ...

```

-----REL----->
<-----RLC-----

Case a)
SPA          IUT          SPB
              -----IAM----->
              <-----ACM-----
              <-----ANM-----
              -----CPG----->  check held state
<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG-----  -----CPG----->
      conf est          conf est
    ... 3PTY communication ...
-----REL----->  -----CPG----->
<-----RLC-----  remote hold
                  -----CPG----->
                  conf disc
                  -----REL----->
                  <-----RLC-----

```

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Check Remote hold indication at SPB.
 6. Check conference disconnected after retrieving the held call.
 7. Check that Release is received at SPB with Cause #16 – Normal call clearing.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_5_b_Remote_user_disconnects_3PTY_call Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Remote user disconnects 3PTY call <p>To verify that the IUT (controlling the conference) can successfully continue the 3PTY call after receiving disconnection by one of the remote users, and send the appropriate notification to the remaining party.</p> <p>The IUT should send to the other remote user CPG with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG is set to "progress".</p> <p>Note: The "remote hold" notification should be sent in a CPG to the other remote user, followed by the "conference disconnected" notification in a separate CPG.</p>					
Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.2.1 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC:A_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)		1	
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)		2	
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))		3	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
17		U_16_1_call_release +A_access_SEND (disconnect_without_component (0, TSV_CREF2,16))			5
18		A_16_1_call_setup +A_CALL_SETUP_RECEIVE_DEFAULT			
19		A_16_1_receive_threpty_start +A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
20		+check_3PTY_communication			4
21		A_16_1_threpty_action +A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_A_cic))			
22		A_16_1_call_release +A_RECEIVE_CALL_REL			
23		B_16_1_call_setup +B_CALL_SETUP_RECEIVE_DEFAULT			
24		B_16_1_receive_threpty_start +B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
25		+check_3PTY_communication			
26		B_16_1_threpty_action +B_SEND_CALL_REL			

Detailed Comments :

Pre-test conditions
 Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

Case b)
 SPC SPA SPB

```

      -----IAM----->
      <-----ACM-----
      <-----ANM-----
      -----CPG----->  check held state

<-----IAM-----
-----ACM----->
-----ANM----->
<-----CPG----- -----CPG----->
      conf est          conf est
      ... 3PTY communication ...
<-----CPG----- <-----REL-----
      conf disc      -----RLC----->
<-----REL-----
-----RLC----->

```

Case b)
 SPA IUT SPB

```

      -----IAM----->
      <-----ACM-----
      <-----ANM-----
      -----CPG----->  check held state

<-----IAM-----

```

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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
-----ACM----->
-----ANM----->
<-----CPG----->-----CPG----->
      conf est          conf est
      ... 3PTY communication ...
<-----CPG-----> <-----REL----->
      conf disc      -----RLC----->
<-----REL----->
-----RLC----->
```

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. User at SPB disconnects with Cause #16 Normal call clearing.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_6_a_IUT_passing_3PTY_indications_succeeding_exchange Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : To verify that the IUT can transparently transfer all indications related to 3 PTY. The IUT should be able to transparently transfer the CPG with the following notifications in the Generic notification indicator in both the forward and the backward directions: 1. "Conference Established" 2. "Conference Disconnected" 3. "Remote Hold" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2-4.1 / Q.734.2; Table 2-1/ ETS 300 356-19					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_cpg_1, B_ISUP_PTC:B_cpg_1)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		CREATE (A_ISUP_PTC:A_cpg_2, B_ISUP_PTC:B_cpg_2)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
10		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
11		+check_idle			
12		+postamble			Sets final verdict
		A_call_setup			
13		+A_SEND (IAM_s_AB (TCV_A_cic))			
14		+A_RECEIVE (ACM_m (TCV_A_cic))			
15		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_cpg_1			
16		+A_SEND (CPG_s_AB_Generic_notification_ind_hold (TCV_A_cic))			Send a hold
17		+A_SEND (CPG_s_AB_Generic_notification_ind_conf_est (TCV_A_cic))			Send a Conference Established
		A_cpg_2			
18		+A_SEND (CPG_s_AB_Generic_notification_ind_hold (TCV_A_cic))			Send a hold
19		+A_SEND (CPG_s_AB_Generic_notification_ind_conf_disc (TCV_A_cic))			Send a Conference Disconnect
		A_call_release			
20		+A_SEND_CALL_REL			
		B_call_setup			
21		+B_RECEIVE_cic (IAM_r_AB (**B))			
22		+B_SEND (ACM_m (TCV_B_cic))			
23		+B_SEND (ANM_m (TCV_B_cic))			
		B_cpg_1			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
25		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			Receive a Conference Established
26		B_cpg_2			
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Receive a call hold
27		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			Receive a Conference Disconnect
28		B_call_release +B_RECEIVE_CALL_REL			
<p>Detailed Comments : SPC SPA SPB</p> <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... -----CPG-----> -----CPG-----> check held state -----CPG-----> -----CPG-----> Conf Est ... 3PTY communication ... -----CPG----->-----CPG-----> Remote Hold -----CPG-----> -----CPG-----> Conf Disc. -----REL-----> -----REL-----> <-----RLC----- <-----RLC----- </pre> <hr/> <ol style="list-style-type: none"> 1. Setup a Call from SP B to SP C and put it on hold. 2. Check conference established indication in the CPG. 3. Check through connection of the speech path. 4. Check Remote hold indication at SP B. 5. Check Conference disconnection indication. <p>Implementation:</p> <pre> ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication..... !-----CPG----->!-----CPG----->! HOLD !-----CPG----->!-----CPG----->! Conf Est.3PTY communication..... !-----CPG----->!-----CPG----->! Remote Hold !-----CPG----->!-----CPG----->! Conf Disc. !-----REL----->!-----REL----->! !<-----RLC-----!<-----RLC-----! </pre>					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_6_b_IUT_passing_3PTY_indications_to_preceding_exchange Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : To verify that the IUT can transparently transfer all indications related to 3 PTY. The IUT should be able to transparently transfer the CPG with the following notifications in the Generic notification indicator in both the forward and the backward directions: 1. "Conference Established" 2. "Conference Disconnected" 3. "Remote Hold" Configuration : MTC_and_two_ISUP_PTCs Default : Comments : REFERENCE: 2.5.2.2-4.1 / Q.734.2; Table 2-1/ ETS 300 356-19					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ISUP_PTC:A_call_setup, B_ISUP_PTC:B_call_setup)			
3		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		+check_communication			
5		CREATE (A_ISUP_PTC:A_cpg_1, B_ISUP_PTC:B_cpg_1)			
6		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
7		CREATE (A_ISUP_PTC:A_cpg_2, B_ISUP_PTC:B_cpg_2)			
8		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
9		CREATE (A_ISUP_PTC:A_call_release, B_ISUP_PTC:B_call_release)			
10		?DONE (A_ISUP_PTC, B_ISUP_PTC)			
11		+check_idle			
12		+postamble			Sets final verdict
		A_call_setup			
13		+A_SEND (IAM_s_AB (TCV_A_cic))			
14		+A_RECEIVE (ACM_m (TCV_A_cic))			
15		+A_RECEIVE (ANM_m (TCV_A_cic))			
		A_cpg_1			
16		+A_RECEIVE (CPG_s_AB_Generic_notification_ind_hold (TCV_A_cic))			Receive a hold
17		+A_RECEIVE (CPG_s_AB_Generic_notification_ind_conf_est (TCV_A_cic))			Receive a Conference Established
		A_cpg_2			
18		+A_RECEIVE (CPG_s_AB_Generic_notification_ind_hold (TCV_A_cic))			Receive a hold
19		+A_RECEIVE (CPG_s_AB_Generic_notification_ind_conf_disc (TCV_A_cic))			Receive a Conference Disconnect
		A_call_release			
20		+A_RECEIVE_CALL_REL			
		B_call_setup			
21		+B_RECEIVE_cic (IAM_r_AB (**B))			
22		+B_SEND (ACM_m (TCV_B_cic))			
23		+B_SEND (ANM_m (TCV_B_cic))			
		B_cpg_1			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
24		+B_SEND (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
25		+B_SEND (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			Send a Conference Established
26		B_cpg_2 +B_SEND (CPG_r_AB_Generic_notification_ind_hold (TCV_B_cic))			Send a call hold
27		+B_SEND (CPG_r_AB_Generic_notification_ind_conf_disc (TCV_B_cic))			Send a Conference Disconnect
28		B_call_release +B_SEND_CALL_REL			
<p>Detailed Comments : SPC SPA SPB</p> <pre> -----IAM-----> -----IAM-----> <-----ACM----- <-----ACM----- ... ringing tone ... <-----ANM----- <-----ANM----- ... check communication ... <-----CPG----- <-----CPG----- check held state <-----CPG----- <-----CPG----- Conf Est ... 3PTY communication ... <-----CPG----- <-----CPG----- Remote Hold <-----CPG----- <-----CPG----- Conf Disc. <-----REL----- <-----REL----- -----RLC-----> -----RLC-----> </pre> <hr/> <p>1. Setup a call from SP B to SP C and put it on HOLD 2. Send conference established indication in the CPG. 3. Check through connection in the speech path. 4. Send Remote HOLD indication from SP B. 5. Send Conference Disconnection indication.</p> <p>Implementation:</p> <pre> ----- TTCN IUT TTCN !-----IAM----->!-----IAM----->! !<-----ACM-----!<-----ACM-----! ringing tone..... !<-----ANM-----!<-----ANM-----! check communication..... !<-----CPG-----!<-----CPG-----! HOLD !<-----CPG-----!<-----CPG-----! Conf Est.3PTY communication..... !<-----CPG-----!<-----CPG-----! Remote Hold !<-----CPG-----!<-----CPG-----! Conf Disc. !<-----REL-----!<-----REL-----! !-----RLC----->!-----RLC----->! </pre>					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_7_Remote_user_included_in_3PTY Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Remote user included in 3PTY <p>To verify that the IUT can receive the notification information related to 3PTY, and pass it on to the access signalling system</p> <p>The IUT should be able to transparently transfer the CPG message with the following notifications in the generic notification indicator in both the forward and the backward direction :</p> <ol style="list-style-type: none"> 1) "Conference established" 2) "Conference disconnected" 3) "Remote hold" 					
Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference 2.5.2.5.1; Table 2-1 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup, B_ISUP_PTC:B_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, B_ISUP_PTC:B_16_1_threpty_start)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
7		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_call_release, B_ISUP_PTC:B_16_1_call_release)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		+postamble			Sets final verdict
11		U_16_1_threpty_setup +A_access_CALL_SETUP_BA(TSV_CREF1, alert_o_s(0, TSV_CREF1), connect_o_s(0, TSV_CREF1),connect_ack_o_r(TSV_CREF1))			1
12		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
13		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))			3
14		U_16_1_threpty_action +A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		+A_access_SEND (facility_o_s (0, TSV_CREF1, c_EndPTY3inv(TCV_inv_id)))			
16		U_16_1_call_release +A_access_RECEIVE (disconnect_o_r (TSV_CREF1))			
17		B_16_1_call_setup +B_SEND (IAM_s_BA (TCV_B_cic))			
18		+B_RECEIVE (ACM_m (TCV_B_cic))			
19		+B_RECEIVE (ANM_m (TCV_B_cic))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
20		B_16_1_threpty_start +B_RECEIVE (CPG_r_BA_Generic_notification_ind_hold (TCV_B_cic))			Receive a hold
21		+B_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_B_cic))			Receive a Conference Established
22		+check_3PTY_communication			4
		B_16_1_threpty_action			
23		+B_RECEIVE (CPG_r_BA_Generic_notification_ind_hold (TCV_B_cic))			Receive a hold
24		+B_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_B_cic))			Receivea Conference Disconnect
		B_16_1_call_release			
25		+B_SEND_CALL_REL			
Detailed Comments : Pre-test conditions <pre> access SPA SPB(MTC) SPD (controlling 3PTY) <----setup-----<----IAM-----<----IAM----- ----alerting----> ----ACM-----> ----ACM----- ----connect----> ----ANM-----> ----ANM----- <---remote hold---<----CPG-----<----CPG----- remote hold remote hold <----conf est-----<----CPG-----<----CPG----- conf est conf est ... 3PTY communication ... <---remote hold---<----CPG-----<----CPG----- remote hold remote hold <----conf disc-----<----CPG-----<----CPG----- conf disc conf disc <---disconnect-----<----REL-----<----REL----- -----RLC-----> -----RLC-----> </pre> <pre> access IUT SPB <----setup-----<----IAM----- ----alerting----> ----ACM-----> ----connect----> ----ANM-----> <---remote hold---<----CPG----- remote hold <----conf est-----<----CPG----- conf est ... 3PTY communication ... <---remote hold---<----CPG----- remote hold <----conf disc-----<----CPG----- conf disc <---disconnect-----<----REL----- -----RLC-----> </pre> <ol style="list-style-type: none"> 1. Set up a call to a UNI at access and put it on hold. 2. Assist call set up to the access observe the indications: conference established", conference disconnected and remote hold . 3. The 3PTY served user starts the 3PTY conversation 					

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Test Case Dynamic Behaviour

Detailed Comments : ...

4. Check the 3PTY communication towards the remote party.
5. Send remote hold indication to the remote party, sign that the other party has been disconnected.
6. Send conference disconnected, sign that the remote user has been retrieved.
7. Check that communication is possible and release the call.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_8_Served_user_initiates_3PTY_interaction_with_HOLD Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : Served user initiates 3PTY; interaction with HOLD <p>To verify that the IUT does not send any notifications to the remote users by request of HOLD by the served user during the 3PTY conversation active phase.</p> Configuration : MTC_and_two_ISUP_and_access_PTCs Default : Comments : ISUP 97 reference2.6.15 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+preamble			
2		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_B_send, A_ISUP_PTC:A_16_1_call_setup)			
3		?DONE (A_ACCESS_PTC, A_ISUP_PTC)			
4		CREATE (A_ACCESS_PTC:U_16_1_threpty_setup_A_send, B_ISUP_PTC:B_16_1_call_setup)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		CREATE (A_ACCESS_PTC:U_16_1_threpty_start, A_ISUP_PTC:A_16_1_receive_threpty_start, B_ISUP_PTC:B_16_1_receive_threpty_start)			
7		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ACCESS_PTC:U_16_1_threpty_action, B_ISUP_PTC:B_16_1_threpty_action)			
9		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
10		CREATE (A_ACCESS_PTC:U_16_1_call_release, A_ISUP_PTC:A_16_1_call_release, B_ISUP_PTC:B_16_1_call_release)			
11		?DONE (A_ACCESS_PTC, A_ISUP_PTC, B_ISUP_PTC)			
12		+postamble			Sets final verdict
13		U_16_1_threpty_setup_B_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF1)			1
14		+A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
15		U_16_1_threpty_setup_A_send +A_access_CALL_SETUP_AB_DEFAULT_with_CREF (TSV_CREF2)			2
16		U_16_1_threpty_start +A_access_SEND (facility_o_s (0, TSV_CREF1, c_BegPTY3inv(TCV_inv_id)))			3
17		U_16_1_threpty_action +A_access_SEND (hold_o_s (TCV_flag_dss1,TSV_CREF1))			
18		U_16_1_call_release +A_access_SEND (disconnect_without_component (0, TSV_CREF1,16))			5

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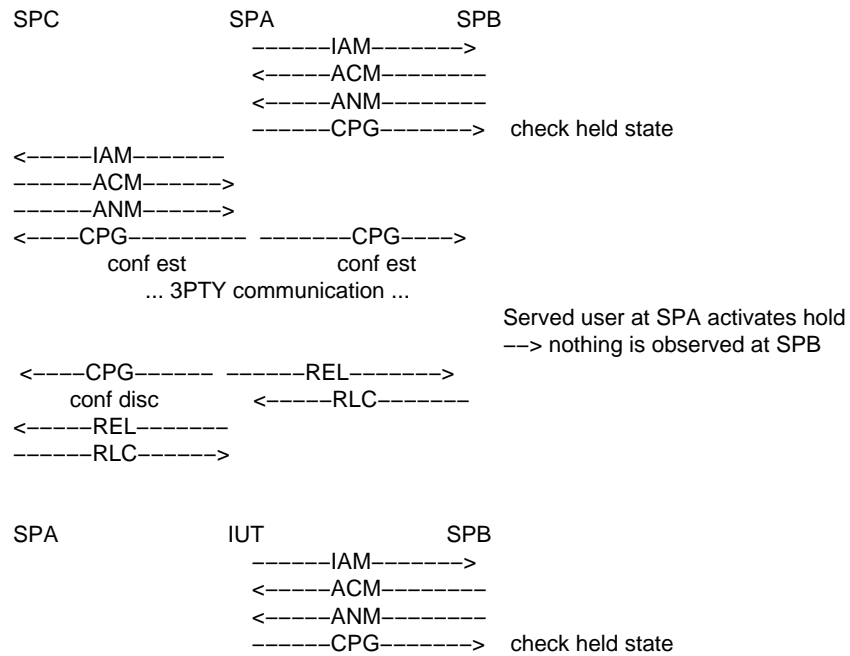
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
19		+A_access_SEND (disconnect_without_component (0, TSV_CREF2,16))			5
		A_16_1_call_setup			
20		+A_CALL_SETUP_RECEIVE_DEFAULT			
		A_16_1_receive_threpty_start			
21		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_est (TCV_A_cic))			
22		+check_3PTY_communication			4
		A_16_1_call_release			
23		+A_RECEIVE (CPG_r_BA_Generic_notification_ind_conf_disc (TCV_A_cic))			
24		+A_RECEIVE_CALL_REL			
		B_16_1_call_setup			
25		+B_CALL_SETUP_RECEIVE_DEFAULT			
		B_16_1_receive_threpty_start			
26		+B_RECEIVE (CPG_r_AB_Generic_notification_ind_conf_est (TCV_B_cic))			
27		+check_3PTY_communication			
		B_16_1_threpty_action			
28		+B_TIMEOUT			
		B_16_1_call_release			
29		+B_RECEIVE_CALL_REL			

Detailed Comments :

Pre-test conditions

Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.



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*Continued from previous page***Test Case Dynamic Behaviour****Detailed Comments : ...**

```
<-----IAM-----  
-----ACM----->  
-----ANM----->  
<-----CPG-----> -----CPG----->  
      conf est          conf est  
      ... 3PTY communication ...  
  
<-----CPG-----> -----REL----->  
      conf disc          <-----RLC----->  
<-----REL----->  
-----RLC----->
```

Served user at SPA activates hold
--> nothing is observed at SPB

-
1. Set up a first call from access to SPB and put it on hold.
 2. Set up a second call from access to SPA.
 3. Join the two calls into a 3PTY communication and check conference established" in the CPG.
 4. Check the 3PTY communication towards each party.
 5. Check that no notification of call Hold is received at SPA.

Test Case Dynamic Behaviour					
Test Case Name : ISS_V_16_9_3PTY_interaction_with_other_networks Group : ISUP_Supplementary_Services/ISS_16_THREE_PTY/ Purpose : 3PTY; interaction with other networks <p>To verify that the IUT will discard the call progress information in case of interaction with network which does not provide it. The 3PTY should be completed.</p> Configuration : MTC_and_ISUP_and_NON_ISUP_PTCs Default : Comments : ISUP 97 reference2.7 /Q.734.2					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
1		+ preamble			
2		CREATE (A_ISUP_PTC : A_16_9_call_setup, B_ISUP_PTC : B_16_9_call_setup)			
3		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
4		CREATE (A_ISUP_PTC : A_16_9_actions, B_ISUP_PTC : B_16_9_actions)			
5		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
6		CREATE (A_ISUP_PTC : A_16_9_3PTY, B_ISUP_PTC : B_16_9_3PTY)			
7		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
8		CREATE (A_ISUP_PTC : A_16_9_call_release, B_ISUP_PTC : B_16_9_call_release)			
9		? DONE (A_ISUP_PTC, B_ISUP_PTC)			
10		+ postamble			
		A_16_9_call_setup			
11		A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_IAl_r_UA		1
12		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ACM_s_AU		
13		+ ringing_tone			
14		A_NON_ISUP_PCO ! Non_ISUP_REQ	Non_isup_ANC_s_AU		
		A_16_9_actions			
15		+A_TIMEOUT			
		A_16_9_3PTY			
16		+check_3PTY_communication			
17		+A_TIMEOUT			
		A_16_9_call_release			
18		A_NON_ISUP_PCO ? Non_ISUP_IND	Non_isup_CCL_r_UA		
		B_16_9_call_setup			
19		+ B_CALL_SETUP_BA (IAM_s_BA_Non_isup_called_party_number (TCV_B_cic), ACM_m (TCV_B_cic), ANM_m (TCV_B_cic))			
		B_16_9_actions			
20		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Receive a hold

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdic	Comments
21		+B_SEND (CPG_s_BA_Generic_notification_ind_conf_est (TCV_B_cic))			Receive a Conference Established 2
22		B_16_9_3PTY			
23		+check_3PTY_communication			3
24		+B_SEND (CPG_s_BA_Generic_notification_ind_hold (TCV_B_cic))			Receive a hold 4
25		+B_SEND (CPG_s_BA_Generic_notification_ind_conf_disc (TCV_B_cic))			Receive a Conference Disconnect 4
		B_16_9_call_release			
		+ B_SEND_CALL_REL			5
<p>Detailed Comments :</p> <p>Pre-test conditions</p> <pre> SP(non-ISUP) SPA SPB(MTC) SPD (controlling 3PTY) <-----IAI-----> <-----IAM-----> -----ACM-----> -----ACM-----> -----ANC-----> -----ANM-----> <-----CPG-----> remote hold <-----CPG-----> conf est ... 3PTY communication ... <-----CPG-----> remote hold <-----CPG-----> conf disc <-----CCL-----> <-----REL-----> -----RLC-----> SP(non-ISUP) IUT SPB <-----IAI-----> <-----IAM-----> -----ACM-----> -----ACM-----> -----ANC-----> -----ANM-----> <-----CPG-----> remote hold <-----CPG-----> conf est ... 3PTY communication ... <-----CPG-----> remote hold <-----CPG-----> conf disc <-----CCL-----> <-----REL-----> -----RLC-----> </pre> <ol style="list-style-type: none"> 1. Set up a call from SPB to a non-ISUP destination at SP and put it on hold. 2. Send conference established indication in the CPG. 3. Check through-connection of the speech path. 4. Send remote hold indication from SPB. 5. Send conference disconnected indication. 					

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Test Case Dynamic Behaviour
Detailed Comments : ...

Test Step Dynamic Behaviour					
Test Step Name : check_no_tone Group : Generic_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+TWAIT (1)			
2		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_no_channel Group : Generic_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+TWAIT (1)			
2		[TRUE]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_3PTY_communication Group : Generic_steps/ Objective : Default : Comments : Checks the proper communication between the three parties of the conference.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_MCID_recordings Group : Generic_steps/ Objective : Default : Comments : Some commands should be applied to check the proper recordings of MCID information in the IUT.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_call_waiting					
Group : Generic_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+TWAIT (1)			
2		[TRUE]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_communication					
Group : Generic_steps/					
Objective :					
Default :					
Comments : Checks the communication between connected parties.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+TWAIT (1)			
2		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_idle					
Group : Generic_steps/					
Objective :					
Default :					
Comments : Checks idle circuits after call release.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+TWAIT (1)			
2		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_no_through_connection					
Group : Generic_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+TWAIT (1)			
2		[TRUE]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : check_ringing_tone_at_non_isup_pco					
Group : Generic_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : postamble					
Group : Generic_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]		R	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : preamble					
Group : Generic_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ringing_tone Group : Generic_steps/ Objective : Default : Comments : Checks the receipt of ringing tone.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : TWAIT(sec:INTEGER) Group : Generic_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_WAIT (sec)			
2		? TIMEOUT T_WAIT			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_CALL_SETUP(iam:IAM;acm:ACM;anm:ANM) Group : ISUP_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ! M_TRANSFERreq	A_send (iam)		
3		A_PCO ? M_TRANSFERind	A_receive (acm)		
4		START T_A_STEP			
5		+ringing_tone			
6		A_PCO ? M_TRANSFERind	A_receive (anm)	(P)	
7		CANCEL T_A_STEP			
8		? TIMEOUT T_A_STEP		(F)	
9		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_CALL_SETUP_AND_HOLD_AU (iam : IAM; acm : ACM; anm : ANM; cpg : CPG) Group : ISUP_steps/ Objective : Initiate call setup and hold Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ! M_TRANSFERreq	A_send (iam)		
3		A_PCO ? M_TRANSFERind	A_receive (acm)		
4		START T_A_STEP			
5		+ringing_tone			
6		A_PCO ? M_TRANSFERind	A_receive (anm)		
7		CANCEL T_A_STEP			
8		A_PCO ? M_TRANSFERind	A_receive (cpg)	(P)	
9		CANCEL T_A_STEP			
10		? TIMEOUT T_A_STEP		(F)	
11		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
12		? TIMEOUT T_A_STEP		(F)	
13		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_CALL_SETUP_AND_HOLD_UA (iam : IAM; acm : ACM; anm : ANM; cpg : CPG) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind (TCV_A_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_A_cic:=TCV_A_help) CANCEL T_A_STEP	A_receive (iam)		
3		A_PCO ! M_TRANSFERreq	A_send (acm)		
4		+ringing_tone			
5		A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (anm)		
6		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (cpg)	(P)	
7		A_PCO ? M_TRANSFERind [TCV_any_msg] (TCV_A_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_A_cic:=TCV_A_help) CANCEL T_A_STEP	A_receive (IAM_anyvalue ('B'))	(I)	Alternative receive for case when received IAM parameters does not match
8		A_PCO ! M_TRANSFERreq	A_send (acm)		
9		+ringing_tone			
10		A_PCO ! M_TRANSFERreq	A_send (anm)		
11		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (cpg)	(P)	
12		? TIMEOUT T_A_STEP		(F)	
13		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_CALL_SETUP_RECEIVE_DEFAULT Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind (TCV_A_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_A_cic:=TCV_A_help) CANCEL T_A_STEP	A_receive (IAM_anyvalue ("**B))		
3		A_PCO ! M_TRANSFERreq	A_send (ACM_m (TCV_A_cic))		
4		A_PCO ! M_TRANSFERreq	A_send (ANM_m (TCV_A_cic))	(P)	
5		? TIMEOUT T_A_STEP		(F)	
6		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_NON_ISUP_CALL_SETUP Group : ISUP_steps/ Objective : Default : Comments : Test procedure to set up a call towards non-ISUP network wich cannot support Sub-addressing.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_PSTN_CALL_SETUP Group : ISUP_steps/ Objective : Setup a PSTN call. Default : Comments : Use PSTN message flow to setup an active call to a ISDN subscriber.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_NON_ISUP_RECEIVE_CALL_REL					
Group : ISUP_steps/					
Objective :					
Default :					
Comments : Test procedure to release a call towards a non-ISUP network wich cannot support Sub-addressing.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_PSTN_CALL_HOLD_in_band_ind					
Group : ISUP_steps/					
Objective :					
Default :					
Comments : To check if the in-band information provided to the PSTN subscriber in case of call HOLD.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_PSTN_CALL_REL					
Group : ISUP_steps/					
Objective :					
Default :					
Comments : Test procedure to release a call towards a non-ISUP network wich cannot support Sub-addressing					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TRUE]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE (receivmsg:PDU)					
Group : ISUP_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP	A_receive (receivmsg)		
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP		(P)	
3		? TIMEOUT T_A_STEP		(F)	
4		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_CALL_REL					
Group : ISUP_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (REL_m (TCV_A_cic))		
3		A_PCO ! M_TRANSFERreq	A_send (RLC_m (TCV_A_cic))	(P)	
4		? TIMEOUT T_A_STEP		(F)	
5		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_CALL_REL2 Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (REL_m (TCV_A_cic2))		
3		A_PCO ! M_TRANSFERreq	A_send (RLC_m(TCV_A_cic2))	(P)	
4		? TIMEOUT T_A_STEP		(F)	
5		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_CALL_REL_withPDU(rel:REL;rlc:RLC) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (rel)		
3		A_PCO ! M_TRANSFERreq	A_send (rlc)	(P)	
4		? TIMEOUT T_A_STEP		(F)	
5		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_CONF_ADD_MAX Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_cic := TSO_NEXT_CIC (TCV_A_cic))			
2		REPEAT ADD_CONFEREE UNTIL [TCV_count1 = TCV_conf_size_id-2]			
3		ADD_CONFEREE A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (IAM_r_AB_with_called_number (TCV_cic,TSP_NB_B))		
4		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ACM_m (TCV_cic))		
5		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ANM_m (TCV_cic))		
6		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (CPG_r_AB_Generic_notification_ind_conf_est (TCV_cic))	(P)	
7		(TCV_count1 := TCV_count1+1, TCV_cic:= TSO_NEXT_CIC (TCV_cic))			
8		? TIMEOUT T_A_STEP		(F)	
9		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
10		? TIMEOUT T_A_STEP		(F)	
11		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
12		? TIMEOUT T_A_STEP		(F)	
13		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_CONF_OTH_PTY_ADD					
Group : ISUP_steps/					
Objective : checks the addition of other user					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_count0:=1, TCV_cic :=			
2		TSO_NEXT_CIC (TCV_A_cic))			
		REPEAT ADD_CONFEREE UNTIL			
		[TCV_count0 = TCV_conf_size_id-3]			
		ADD_CONFEREE			
3		START T_A_STEP			
4		A_PCO ? M_TRANSFERind	A_receive	(P)	
		CANCEL T_A_STEP	(CPG_r_AB_Generic_notific		
			ation_ind_other_party_add		
			(TCV_cic))		
5		(TCV_count0 := TCV_count0+1,			
		TCV_cic:= TSO_NEXT_CIC (TCV_cic))			
6		? TIMEOUT T_A_STEP		(F)	
7		A_PCO ? OTHERWISE CANCEL		(F)	
		T_A_STEP			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_CONF_START Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (CPG_r_AB_Generic_notific ation_ind_conf_est (TCV_A_cic))		
3		A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (IAM_r_AB_with_called_nu mber (TCV_A_cic2,TSP_NB_B))		
4		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ACM_m (TCV_A_cic2))		
5		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ANM_m (TCV_A_cic2))		
6		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (CPG_r_AB_Generic_notific ation_ind_conf_est (TCV_A_cic2))	(P)	
7		? TIMEOUT T_A_STEP		(F)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		? TIMEOUT T_A_STEP		(F)	
10		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
11		? TIMEOUT T_A_STEP		(F)	
12		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
13		? TIMEOUT T_A_STEP		(F)	
14		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_RECEIVE_cic (iam:IAM) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind (TCV_A_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_A_cic:=TCV_A_help) CANCEL T_A_STEP	A_receive (iam)	(P)	
3		A_PCO ? M_TRANSFERind [TCV_any_msg] (TCV_A_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_A_cic:=TCV_A_help) CANCEL T_A_STEP	A_receive (IAM_anyvalue (**B))	(I)	Received message did not match to expected message, and was received as any message in order to get cic
4		? TIMEOUT T_A_STEP		(F)	
5		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_SEND (sendmsg:PDU) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_PCO ! M_TRANSFERreq	A_send (sendmsg)	(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_SEND_CALL_REL Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (REL_m (TCV_A_cic))		
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (RLC_m (TCV_A_cic))	(P)	
3		? TIMEOUT T_A_STEP		(F)	
4		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_SEND_CONF Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (IAM_r_AB_with_called_nu mber (TCV_A_cic,TSP_NB_B))		
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ACM_m (TCV_A_cic))		
3		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ANM_m (TCV_A_cic))		
4		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (CPG_r_BA_Generic_notific ation_ind_hold (TCV_A_cic))	(P)	
5		? TIMEOUT T_A_STEP		(F)	
6		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
7		? TIMEOUT T_A_STEP		(F)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		? TIMEOUT T_A_STEP		(F)	
10		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_SEND_CONF_UNSUCC Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (IAM_r_AB_with_called_number (TCV_A_cic,TSP_NB_B))		
2		A_PCO ? M_TRANSFERind CANCEL T_A_STEP, START T_A_STEP	A_receive (ACM_m (TCV_A_cic))		
3		A_PCO ? M_TRANSFERind CANCEL T_A_STEP,START T_A_STEP	A_receive (ANM_m (TCV_A_cic))		
4		? TIMEOUT T_A_STEP			
5		+A_SEND_CALL_REL			
6		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
7		? TIMEOUT T_A_STEP		(F)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		? TIMEOUT T_A_STEP		(F)	
10		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_TIMEOUT Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
3		? TIMEOUT T_B_STEP		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP(iam:IAM;acm:ACM;anm:ANM) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (iam)		
3		B_PCO ! M_TRANSFERreq	B_send (acm)		
4		+ringing_tone			
5		B_PCO ! M_TRANSFERreq	B_send (anm)	(P)	
6		B_PCO ? M_TRANSFERind [TCV_any_msg] (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (IAM_anyvalue ("**B))	(I)	Alternative receive for case when received IAM parameters does not match
7		B_PCO ! M_TRANSFERreq	B_send (acm)		
8		+ringing_tone			
9		B_PCO ! M_TRANSFERreq	B_send (anm)		
10		? TIMEOUT T_B_STEP		(F)	
11		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_AND_DISC_AB (iam : IAM; rel : REL; rlc : RLC) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (iam)		
3		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (rel)		
4		B_PCO ? M_TRANSFERind	B_receive (rlc)	(P)	
5		? TIMEOUT T_B_STEP		(F)	
6		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
7		? TIMEOUT T_B_STEP		(F)	
8		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_AND_DISC_BA (iam : IAM; rel : REL; rlc : RLC) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ! M_TRANSFERreq	B_send (iam)		
3		B_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_B IT(HEX_TO_INT(TSO_SUBSTR(M_TRAN SFERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBST R(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (rel)		
4		B_PCO ! M_TRANSFERreq	B_send (rlc)	(P)	
5		? TIMEOUT T_B_STEP		(F)	
6		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_ANSWER_AND_DISC_BA (iam : IAM; rel : REL; rlc : RLC) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (iam)		
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP, START T_B_STEP	B_receive (rel)		
3		B_PCO ? M_TRANSFERind	B_receive (rlc)	(P)	
4		? TIMEOUT T_B_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
6		? TIMEOUT T_B_STEP		(F)	
7		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_BA(iam:IAM;acm:ACM;anm:ANM) Group : ISUP_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (iam)		
2		B_PCO ? M_TRANSFERind START T_B_STEP	B_receive (acm)		
3		+ringing_tone			
4		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (anm)	(P)	
5		? TIMEOUT T_B_STEP		(F)	
6		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
7		? TIMEOUT T_B_STEP		(F)	
8		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_RECEIVE_DEFAULT Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (IAM_anyvalue ("B")		
3		B_PCO ! M_TRANSFERreq	B_send (ACM_m (TCV_B_cic)		
4		B_PCO ! M_TRANSFERreq	B_send (ANM_m (TCV_B_cic))	(P)	
5		? TIMEOUT T_B_STEP		(F)	
6		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_TILL_ACM_BU (iam : IAM; acm : ACM) Group : ISUP_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (iam)		
2		B_PCO ? M_TRANSFERind START T_B_STEP	B_receive (acm)	(P)	
3		+ringing_tone			
4		? TIMEOUT T_B_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CALL_SETUP_TILL_ACM_UB (iam : IAM; acm : ACM) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (iam)		
3		B_PCO ! M_TRANSFERreq	B_send (acm)	(P)	
4		+ringing_tone			
5		B_PCO ? M_TRANSFERind [TCV_any_msg] (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (IAM_anyvalue ('*B'))	(I)	Alternative receive for case when received IAM parameters does not match
6		B_PCO ! M_TRANSFERreq	B_send (acm)		
7		+ringing_tone			
8		? TIMEOUT T_B_STEP		(F)	
9		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE (receivmsg:PDU) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (receivmsg)	(P)	
3		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
4		? TIMEOUT T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_CALL_REL Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (REL_m (TCV_B_cic))		
3		B_PCO ! M_TRANSFERreq	B_send (RLC_m (TCV_B_cic))	(P)	
4		? TIMEOUT T_B_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_CALL_REL_A_CIC Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (REL_m (TCV_A_cic))		
3		B_PCO ! M_TRANSFERreq	B_send (RLC_m (TCV_A_cic))	(P)	
4		? TIMEOUT T_B_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_CALL_REL_withPDU(rel:REL;rlc:RLC) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (rel)		
3		B_PCO ! M_TRANSFERreq	B_send (rlc)	(P)	
4		?TIMEOUT T_B_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_CONF Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		A_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_A_STEP	B_receive (IAM_anyvalue ('*B))		
3		A_PCO ! M_TRANSFERreq	A_send (ACM_m (TCV_B_cic)		
4		A_PCO ! M_TRANSFERreq START T_A_STEP	A_send (ANM_m (TCV_B_cic)		
5		+check_communication			
6		A_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (CPG_r_AB_Generic_notific ation_ind_conf_est (TCV_B_cic))	(P)	
7		? TIMEOUT T_A_STEP		(F)	
8		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
9		? TIMEOUT T_A_STEP		(F)	
10		A_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_CONF_ADD_MAX Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		REPEAT ADD_CONFEREE UNTIL [TCV_count2 = TCV_conf_size_id-2]			
2		ADD_CONFEREE			
3		START T_A_STEP B_PCO ? M_TRANSFERind CANCEL T_A_STEP	A_receive (CPG_r_AB_Generic_notific ation_ind_other_party_add (TCV_B_cic))	(P)	
4		(TCV_count2 := TCV_count2+1)			
5		? TIMEOUT T_A_STEP		(F)	
6		B_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_CONF_START Group : ISUP_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_A_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_A_STEP	B_receive (CPG_r_AB_Generic_notific ation_ind_other_party_add (TCV_B_cic))		
3		B_PCO ? M_TRANSFERind CANCEL T_A_STEP	B_receive (CPG_r_AB_Generic_notific ation_ind_other_party_add (TCV_B_cic))	(P)	
4		? TIMEOUT T_A_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
6		? TIMEOUT T_A_STEP		(F)	
7		B_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_EITHER (receivemsg1:PDU; receivemsg2:PDU) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (receivemsg1)	(P)	
3		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (receivemsg2)	(P)	
4		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
5		? TIMEOUT T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_ONE_OR_TWO (receivemsg1:PDU; receivemsg2:PDU; receivemsg3:PDU) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (receivemsg1)	(P)	
3		B_PCO ? M_TRANSFERind	B_receive (receivemsg2)	(P)	
4		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (receivemsg3)	(P)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
6		? TIMEOUT T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_RECEIVE_cic(iam:IAM) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? M_TRANSFERind (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (iam)	(P)	
3		B_PCO ? M_TRANSFERind [TCV_any_msg] (TCV_B_help:=TSO_CONCAT(INT_TO_BIT (HEX_TO_INT(TSO_SUBSTR(M_TRANSF ERind.data,1,1)),4), INT_TO_BIT(HEX_TO_INT(TSO_SUBSTR(M_TRANSFERind.data,0,1)),8)), TCV_B_cic:=TCV_B_help) CANCEL T_B_STEP	B_receive (IAM_anyvalue (**B))	(I)	Received message did not match to expected message, and was received as any message in order to get cic
4		? TIMEOUT T_B_STEP		(F)	
5		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_SEND (sendmsg:PDU) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq	B_send (sendmsg)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_SEND_CALL_REL Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (REL_m (TCV_B_cic))		
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (RLC_m (TCV_B_cic))	(P)	
3		?TIMEOUT T_B_STEP		(F)	
4		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_SEND_CALL_REL_A_CIC Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (REL_m (TCV_A_cic))		
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (RLC_m (TCV_A_cic))	(P)	
3		?TIMEOUT T_B_STEP		(F)	
4		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_SEND_CALL_REL_withPDU(rel:REL;rlc:RLC) Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		B_PCO ! M_TRANSFERreq START T_B_STEP	B_send (rel)		
2		B_PCO ? M_TRANSFERind CANCEL T_B_STEP	B_receive (rlc)	(P)	
3		?TIMEOUT T_B_STEP		(F)	
4		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_TIMEOUT Group : ISUP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_B_STEP			
2		B_PCO ? OTHERWISE CANCEL T_B_STEP		(F)	
3		? TIMEOUT T_B_STEP		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_AB (setup:PDU;call_proc:PDU;alert:PDU;connect:PDU) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		+DSS1_Preamble			
3		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1:=1) START TAC	access_send (setup)		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (call_proc)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert)		
6		+ringing_tone			
7		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect)	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
14		[TSP_PSEUDO]			
15		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
16		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)		alert message
17		+ringing_tone			
18		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_pseudo)	(P)	connect message
19		? TIMEOUT TAC		(F)	
20		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
21		? TIMEOUT TAC		(F)	
22		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
23		[TSP_MANUAL]			
24		START T_manual			General call setup send
25		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_AB_DEFAULT Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		+DSS1_Preamble			
3		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1:=0) START TAC	access_send (setup_no_calling_party_number(TCV_flag_dss1, TSV_CREF1))		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (call_proceeding_o_r (TSV_CREF1))		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_o_r (TSV_CREF1))		
6		+ringing_tone			
7		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_o_r (TSV_CREF1))	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
14		[TSP_PSEUDO]			
15		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
16		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)		alert message
17		+ringing_tone			
18		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_pseudo)	(P)	connect message
19		? TIMEOUT TAC		(F)	
20		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
21		? TIMEOUT TAC		(F)	
22		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
23		[TSP_MANUAL]			
24		START T_manual			General call setup send (default)
25		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_AB_DEFAULT_with_CREF (CREF:BIT7OR15) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		+DSS1_Preamble			
3		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1:=0) START TAC	access_send (setup_no_calling_party_number(TCV_flag_dss1,CREF))		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (call_proceeding_o_r (CREF))		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_o_r (CREF))		
6		+ringing_tone			
7		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_o_r (CREF))	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
14		[TSP_PSEUDO]			
15		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
16		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)		alert message
17		+ringing_tone			
18		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_pseudo)	(P)	connect message
19		? TIMEOUT TAC		(F)	
20		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
21		? TIMEOUT TAC		(F)	
22		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
23		[TSP_MANUAL]			
24		START T_manual			General call setup send (on certain Call Reference)
25		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_AND_DISC_AB (setup : PDU; cp : PDU; disc : PDU) Group : Access_steps/ Objective : Initiate an unsuccessful call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1:=0) START TAC	access_send (setup)		
2		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (cp)		
3		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disc)	(P)	
4		? TIMEOUT TAC		(F)	
5		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
6		? TIMEOUT TAC		(F)	
7		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_AND_HOLD_AU (setup : PDU; alert : PDU; conn : PDU; conn_ack : PDU; hold : PDU; hold_ack : PDU) Group : Access_steps/ Objective : Assist successful call setup and hold Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_flag_dss1 := 0) START TAC			
2		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup)		
3		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert)		
4		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (conn)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (conn_ack)		
6		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (hold)		
7		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (hold_ack)	(P)	
8		+ A_access_SEND_CALL_REL (release_o_s (TCV_flag_dss1, TSV_CREF1, 16), release_comp_o_r (TSO_COMPLEMENT_F (TCV_flag_dss1), TSV_CREF1))			
9		? TIMEOUT TAC		(F)	
10		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
11		? TIMEOUT TAC		(F)	
12		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
13		? TIMEOUT TAC		(F)	
14		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_AND_HOLD_UA (setup : PDU; cp : PDU; alert : PDU; conn : PDU; hold : PDU; hold_ack : PDU) Group : Access_steps/ Objective : Assist successful call setup and hold Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_flag_dss1 := 1)			
2		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup)		
3		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (cp)		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (conn)		
6		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (hold)		
7		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (hold_ack)	(P)	
8		+ A_access_SEND_CALL_REL (release_o_s (TCV_flag_dss1, TSV_CREF1, 16), release_comp_o_r (TSO_COMPLEMENT_F (TCV_flag_dss1), TSV_CREF1))			
9		? TIMEOUT TAC		(F)	
10		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
11		? TIMEOUT TAC		(F)	
12		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
13		? TIMEOUT TAC		(F)	
14		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
15		? TIMEOUT TAC		(F)	
16		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_ANSWER_AND_DISC_BA (setup : PDU; alert : PDU; conn : PDU; conn_ack : PDU; disc : PDU) Group : Access_steps/ Objective : Assist successful call setup then terminate Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START TAC			
2		A_ACCESS_PCO ? DL_DAT_IN (TCV_flag_dss1 := 0) CANCEL TAC	access_receive (setup)		
3		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert)		
4		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (conn)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (conn_ack)		
6		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disc)		
7		+ A_access_SEND_CALL_REL (release_o_s (TCV_flag_dss1, TSV_CREF1, 16), release_comp_o_r (TSO_COMPLEMENT_F (TCV_flag_dss1), TSV_CREF1))			
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_BA (CRef:BIT7OR15;connect_ack:PDU;alert:PDU;connect:PDU) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		(TCV_flag_dss1:=1) START TAC			
3		+A_access_RECEIVE_setup(CRef)			
4		CANCEL TAC			
5		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert)		
6		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (connect)		
7		A_ACCESS_PCO ? DL_DAT_IN	access_receive (connect_ack)	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		[TSP_PSEUDO]			
13		START TAC			
14		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup_pseudo)		setup receive
15		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)		alert send
16		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (connect_pseudo)	(P)	connect send
17		? TIMEOUT TAC		(F)	
18		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
19		[TSP_MANUAL]			
20		START T_manual			General call setup receive
21		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_BA_DEFAULT Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		(TCV_flag_dss1:=1)START TAC			
3		+A_access_RECEIVE_setup(TSV_CREF 1)			
4		CANCEL TAC			
5		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_o_s (TCV_flag_dss1,TSV_CREF 1))		
6		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (connect_o_s (TCV_flag_dss1,TSV_CREF 1))		
7		A_ACCESS_PCO ? DL_DAT_IN	access_receive (connect_ack_o_r(TSV_CREF1))	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		[TSP_PSEUDO]			
13		START TAC			
14		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup_pseudo)		setup receive
15		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)		alert send
16		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (connect_pseudo)	(P)	connect send
17		? TIMEOUT TAC		(F)	
18		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
19		[TSP_MANUAL]			
20		START T_manual			General call setup receive (default)
21		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_TILL_ALERT_AB (setup:PDU;call_proc:PDU;alert:PDU) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		+DSS1_Preamble			
3		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1:=0) START TAC	access_send (setup)		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (call_proc)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert)	(P)	
6		? TIMEOUT TAC		(F)	
7		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		[TSP_PSEUDO]			
11		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
12		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)	(P)	alert message
13		? TIMEOUT TAC		(F)	
14		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
15		[TSP_MANUAL]			
16		START T_manual			General call setup send (till alert)
17		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_TILL_ALERT_BA (CRef:BIT7OR15;alert:PDU) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		(TCV_flag_dss1:=0) START TAC			
3		+A_access_RECEIVE_setup(CRef)			
4		CANCEL TAC			
5		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert)	(P)	
6		? TIMEOUT TAC		(F)	
7		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
8		[TSP_PSEUDO]			
9		START TAC			
10		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup_pseudo)		setup receive
11		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)	(P)	alert send
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
14		[TSP_MANUAL]			
15		START T_manual			General call setup receive (till alert)
16		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_TILL_ALERT_UB (setup : PDU; call_proc : PDU; alert : PDU) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		+DSS1_Preamble			
3		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1_2:=1) START TAC	access_send (setup)		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (call_proc)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (alert)	(P)	
6		+ringing_tone			
7		? TIMEOUT TAC		(F)	
8		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
9		? TIMEOUT TAC		(F)	
10		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
11		[TSP_PSEUDO]			
12		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
13		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)	(P)	alert message
14		+ringing_tone			
15		? TIMEOUT TAC		(F)	
16		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
17		[TSP_MANUAL]			
18		START T_manual			General call setup send
19		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CALL_SETUP_UB (setup : PDU; call_proc : PDU; alert : PDU; connect : PDU) Group : Access_steps/ Objective : Initiate call setup Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		+DSS1_Preamble			
3		A_ACCESS_PCO ! DL_DAT_RQ (TCV_flag_dss1_2:=1) START TAC	access_send (setup)		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (call_proc)		
5		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert)		
6		+ringing_tone			
7		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect)	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
14		[TSP_PSEUDO]			
15		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
16		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)		alert message
17		+ringing_tone			
18		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_pseudo)	(P)	connect message
19		? TIMEOUT TAC		(F)	
20		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
21		? TIMEOUT TAC		(F)	
22		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
23		[TSP_MANUAL]			
24		START T_manual			General call setup send
25		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_ACT_INV_AB					
Group : Access_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_CCBS_Activation_AB			
2		+ A_access_CCBS_Invocation_AB			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_ACT_INV_BA Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest inv. component
2		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_BUSY)))			CCBSStatusRequest return result component indicating "busy"
3		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 17))			
4		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
5		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest invoke component
6		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_FREE)))			CCBSStatusRequest return result component indicating "free"
7		START T_CCBS_T8			
8		? TIMEOUT T_CCBS_T8			Wait for T8 timer to expire
9		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest invoke component
10		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_FREE)))			CCBSStatusRequest return result component indicating "free"
11		A_ACCESS_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_ACT_INV_NO_RELEASE_BA Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest inv. component
2		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_BUSY)))			CCBSStatusRequest return result component indicating "busy"
3		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest invoke component
4		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_FREE)))			CCBSStatusRequest return result component indicating "free"
5		START T_CCBS_T8			
6		? TIMEOUT T_CCBS_T8			Wait for T8 timer to expire
7		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest invoke component
8		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_FREE)))			CCBSStatusRequest return result component indicating "free"
9		A_ACCESS_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_Activation_AB Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_CCBSRequest_invoke (TCV_inv_id, TCV_call_link_id)))			CCBS activation request CCBSRequest inv. component
2		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSRequest_return_result (TCV_inv_id)))			CCBS activation response CCBSRequest return result component
3		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 16))			
4		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_Activation_BA Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1_2, TSV_CREF2, c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBSStatusRequest inv. component
2		+ A_access_SEND (facility_o_s (TCV_flag_dss1_2, TSV_CREF2, c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_BUSY)))			CCBSStatusRequest return result component indicating "busy"
3		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 17))			
4		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_Activation_fail_AB (ERR : Error) Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_s_CCBSRequest_invoke (TCV_inv_id, TCV_call_link_id)))			CCBS activation request CCBSRequest inv. component
2		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSRequest_return_error (TCV_inv_id, ERR)))			CCBS activation response CCBSRequest return error component
3		+ A_access_SEND (release_o_s (TCV_flag_dss1, TSV_CREF1, 16))			
4		+ A_access_RECEIVE (release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_Deactivation_AB Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSDeactivation_invoke (TCV_inv_id, TSV_CCBSREF)))			CCBS deactivation invoke operation
2		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_CCBSDeactivate_return_result (TCV_inv_id)))			CCBSRemoteUserFree invoke component
3		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1, c_Component_r_CCBSErase_invoke (TSV_CCBSREF, normal_unspecified)))			CCBSRemoteUserFree invoke component
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CCBS_Invocation_AB Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1,c_Component_r_CCBSStatusRequest_invoke (TSV_CCBSREF)))			CCBS recall request CCBSStatusRequest invoke component
2		+ A_access_SEND (facility_o_s (TCV_flag_dss1, TSV_CREF1,c_Component_CCBSStatusRequest_ReturnResult (TCV_inv_id, TSC_FREE)))			CCBS recall response CCBSStatusRequest return result component indicating "free"
3		+ A_access_RECEIVE (facility_o_r (TCV_flag_dss1, TSV_CREF1,c_Component_r_CCBSSRemoteUserFree_invoke (TSV_CCBSREF)))			CCBSRemoteUserFree invoke component
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CONF_add_max Group : Access_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		REPEAT ADD_CONFEREE UNTIL [TCV_count0 = TCV_conf_size_id-2]			
2		ADD_CONFEREE			
3		[TSP_DSS1]			
4		START TAC			
5		+A_access_RECEIVE_setup (TSV_CREF3)			
6		CANCEL TAC			
7		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_o_s(TCV_flag_dss1, TSV_CREF3))		
8		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_o_s(TCV_flag_dss 1, TSV_CREF3))		
9		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_o_s (TCV_flag_dss1, TSV_CREF3, c_ADDInv(TCV_inv_id, TCV_conf_id)))		
10		A_ACCESS_PCO ? DL_DAT_IN (TCV_count0 := TCV_count0 + 1) CANCEL TAC	access_receive (disconnect_o_r (TSV_CREF3))	(P)	
11		? TIMEOUT TAC		(F)	
12		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
13		? TIMEOUT TAC		(F)	
14		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
15		[TSP_PSEUDO]			
16		START TAC			
17		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup_pseudo)		setup message
18		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)		alert message
19		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_pseudo)		connect message
20		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_pseudo)	(P)	facility message
21		? TIMEOUT TAC		(F)	
22		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
23		? TIMEOUT TAC		(F)	
24		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
25		[TSP_MANUAL]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		START T_manual			General message sequence for adding a maximum number of conferees
26		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CONF_setup_receive Group : Access_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		(TCV_flag_dss1:=1) START TAC			
3		+A_access_RECEIVE_setup (TSV_CREF2)			
4		CANCEL TAC			
5		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_o_s (TCV_flag_dss1, TSV_CREF2))		
6		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_o_s(TCV_flag_dss 1,TSV_CREF2))		
7		A_ACCESS_PCO ! DL_DAT_RQ	access_send (hold_o_s (TCV_flag_dss1,TSV_CREF 2))	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		[TSP_PSEUDO]			
11		START TAC			
12		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup_pseudo)		setup receive
13		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)		alert send
14		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (connect_pseudo)		connect send
15		A_ACCESS_PCO ! DL_DAT_RQ	access_send (hold_pseudo)	(P)	send hold
16		? TIMEOUT TAC		(F)	
17		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
18		[TSP_MANUAL]			
19		START T_manual			General call setup receive and hold request
20		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CONF_setup_receive_unsucc Group : Access_steps/ Objective : Adds a conferee unsuccessfully Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		(TCV_flag_dss1:=1) START TAC			
3		+A_access_RECEIVE_setup (TSV_CREF2)			
4		CANCEL TAC			
5		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_o_s (TCV_flag_dss1, TSV_CREF2))		
6		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_o_s(TCV_flag_dss 1, TSV_CREF2))		
7		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv (TCV_inv_id, TCV_conf_id)))		
8		A_ACCESS_PCO ? DL_DAT_IN_DISCr (TCV_party_id2 := TSO_GET_RESULT (DL_DAT_IN_DISCr.mun.fie , c_ADDrr(TCV_inv_id))) CANCEL TAC	access_receive_conf (disconnect_o_r (TSV_CREF2))	(P)	
9		? TIMEOUT TAC		(F)	
10		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
11		? TIMEOUT TAC		(F)	
12		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
13		[TSP_PSEUDO]			
14		START TAC			
15		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (setup_pseudo)		setup message
16		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)		alert
17		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_pseudo)		connect
18		A_ACCESS_PCO ! DL_DAT_RQ	access_send (facility_pseudo)		facility
19		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disconnect_pseudo)	(P)	disconnect message
20		? TIMEOUT TAC		(F)	
21		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
22		? TIMEOUT TAC		(F)	
23		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
24		[TSP_MANUAL]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		START T_manual			General message sequence for adding a conferee unsuccessfully
26		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CONF_setup_send Group : Access_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		(TCV_flag_dss1_2:=0)			
3		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_no_calling_party_number_with_flag (TCV_flag_dss1_2, TSV_CREF1, TSV_BCHNUM1))		
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_o_r (TSV_CREF1))		
5		A_ACCESS_PCO ? DL_DAT_IN	access_receive (connect_o_r (TSV_CREF1))		
6		+check_communication			
7		(TCV_inv_id:= TSO_RANDOM_INVOKE_ID())			
8		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_o_s (TCV_flag_dss1_2, TSV_CREF1, c_BEG1inv(TCV_inv_id)))		
9		A_ACCESS_PCO ? DL_DAT_IN_DISCr (TCV_conf_id := TSO_GET_RESULT (DL_DAT_IN_DISCr.mun.fie , c_BEG1rr(TCV_inv_id)), TCV_conf_size_id :=TCV_net_conf_size, TCV_party_id1 := TSO_GET_RESULT (DL_DAT_IN_DISCr.mun.fie , c_ADDrr(TCV_inv_id))) CANCEL TAC	access_receive_conf (facility_o_r (TSO_COMPLEMENT_F(TCV_flag_dss1_2),TSV_CREF2, c_BEG1rr(TCV_inv_id)))	(P)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		? TIMEOUT TAC		(F)	
13		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
14		? TIMEOUT TAC		(F)	
15		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
16		[TSP_PSEUDO]			
17		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (setup_pseudo)		setup message
18		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC, START TAC	access_receive (alert_pseudo)		alert message
19		+ringing_tone			
20		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (connect_pseudo)		connect message

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_pseudo)	(P)	facility message
22		? TIMEOUT TAC		(F)	
23		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
24		? TIMEOUT TAC		(F)	
25		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
26		[TSP_MANUAL]			
27		START T_manual			General call setup send and conference request
28		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_CONF_start Group : Access_steps/ Objective : Initiate conference Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_o_s (TCV_flag_dss1, TSV_CREF2, c_ADDInv(TCV_inv_id, TCV_conf_id)))		
3		+A_access_RECEIVE_setup (TSV_CREF3)			
4		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_o_s (TCV_flag_dss1, TSV_CREF3))		
5		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_o_s(TCV_flag_dss 1, TSV_CREF3))		
6		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_o_s (TCV_flag_dss1, TSV_CREF3, c_ADDInv(TCV_inv_id, TCV_conf_id)))		
7		A_ACCESS_PCO ? DL_DAT_IN_DISCr (TCV_party_id2 := TSO_GET_RESULT (DL_DAT_IN_DISCr.mun.fie , c_ADDrr(TCV_inv_id))) CANCEL TAC	access_receive_conf (disconnect_o_r (TSV_CREF3))	(P)	
8		? TIMEOUT TAC		(F)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
10		? TIMEOUT TAC		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
12		[TSP_PSEUDO]			
13		A_ACCESS_PCO ! DL_DAT_RQ START TAC	access_send (facility_pseudo)		facility message
14		A_ACCESS_PCO ? DL_DAT_IN	access_receive (setup_pseudo)		setup message
15		A_ACCESS_PCO ! DL_DAT_RQ	access_send (alert_pseudo)		alert message
16		A_ACCESS_PCO ! DL_DAT_RQ	access_send (connect_pseudo)		connect message
17		A_ACCESS_PCO ! DL_DAT_RQ	access_send (facility_pseudo)	(P)	facility message
18		? TIMEOUT TAC		(F)	
19		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
20		[TSP_MANUAL]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		START T_manual			General message sequence for adding the held call and a new active call
22		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE (receivmsg:PDU)					
Group : Access_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START T_A_STEP			
3		A_ACCESS_PCO ? DL_DAT_IN	access_receive (receivmsg)	(P)	
		CANCEL T_A_STEP			
4		? TIMEOUT T_A_STEP		(F)	
5		A_ACCESS_PCO ? OTHERWISE		(F)	
		CANCEL T_A_STEP			
6		[TSP_PSEUDO]			
7		START T_A_STEP			
8		A_ACCESS_PCO ? DL_DAT_IN	access_receive (pseudo_general)	(P)	
		CANCEL T_A_STEP			
9		? TIMEOUT T_A_STEP		(F)	
10		A_ACCESS_PCO ? OTHERWISE		(F)	
		CANCEL T_A_STEP			
11		[TSP_MANUAL]			
12		START T_manual			General message sequence receive
13		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_CALL_REL(relmes:PDU; rlcmes:PDU) Group : Access_steps/ Objective : To bring the IUT to the state N0. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START TAC			
3		A_ACCESS_PCO?DL_DAT_IN CANCEL TAC	access_receive(relmes)		
4		A_ACCESS_PCO!DL_DAT_RQ	access_send(rlcmes)	(P)	
5		?TIMEOUT TAC		(I)	
6		A_ACCESS_PCO?OTHERWISE CANCEL TAC		(I)	
7		[TSP_MANUAL]			
8		START T_manual			General release procedure receive
9		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_CALL_REL_DEFAULT Group : Access_steps/ Objective : To bring the IUT to the state N0. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START TAC			
3		A_ACCESS_PCO?DL_DAT_IN CANCEL TAC	access_receive(release_o_r(TSO_COMPLE MENT_F(TCV_flag_dss1),T SV_CREF1))		
4		A_ACCESS_PCO!DL_DAT_RQ	access_send(release_comp_o_s(TCV_flag _dss1,TSV_CREF1))	(P)	
5		?TIMEOUT TAC		(I)	
6		A_ACCESS_PCO?OTHERWISE CANCEL TAC		(I)	
7		[TSP_MANUAL]			
8		START T_manual			General release procedure receive
9		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_CALL_REL_ON_BOTH_DCH Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_flag_dss1 := 0, TCV_flag_dss1_2 := 1) START TAC			
2		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disconnect_o_r (TSV_CREF1))		
3		? TIMEOUT TAC		(I)	
4		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
5		+ A_access_RECEIVE_CALL_REL (release_o_s (TSO_COMPLEMENT_F (TCV_flag_dss1), TSV_CREF1, 16), release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
6		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disconnect_o_r (TSV_CREF2))		
7		? TIMEOUT TAC		(I)	
8		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
9		+ A_access_RECEIVE_CALL_REL (release_o_s (TSO_COMPLEMENT_F (TCV_flag_dss1_2), TSV_CREF2, 16), release_comp_o_r (TCV_flag_dss1_2, TSV_CREF2))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_CALL_REL_ON_BOTH_DCH2 Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_flag_dss1 := 1, TCV_flag_dss1_2 := 1) START TAC			
2		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disconnect_o_r (TSV_CREF1))		
3		+ A_access_RECEIVE_CALL_REL (release_o_s (TSO_COMPLEMENT_F (TCV_flag_dss1), TSV_CREF1, 16), release_comp_o_r (TCV_flag_dss1, TSV_CREF1))			
4		A_ACCESS_PCO ? DL_DAT_IN CANCEL TAC	access_receive (disconnect_o_r (TSV_CREF2))		
5		+ A_access_RECEIVE_CALL_REL (release_o_s (TSO_COMPLEMENT_F (TCV_flag_dss1_2), TSV_CREF2, 16), release_comp_o_r (TCV_flag_dss1_2, TSV_CREF2))			
6		? TIMEOUT TAC		(I)	
7		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
8		? TIMEOUT TAC		(I)	
9		A_ACCESS_PCO ? OTHERWISE CANCEL TAC		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_dss1 (receivemsg:PDU)					
Group : Access_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START T_A_STEP			
3		A_ACCESS_PCO ? DL_DAT_IN	access_receive (receivemsg)	(P)	
4		CANCEL T_A_STEP			
5		? TIMEOUT T_A_STEP		(F)	
6		A_ACCESS_PCO ? OTHERWISE		(F)	
7		CANCEL T_A_STEP			
8		[TSP_PSEUDO]			
9		[TRUE]		(P)	
10		[TSP_MANUAL]			
11		[TRUE]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_setup (CRef:BIT7OR15) Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START T_A_STEP			
3		A_ACCESS_PCO?DL_DAT_IN [NOT TSV_BASIC] (CRef := SETUP_PDU.cr.cr_r , TSV_BCHNUM1 := SETUP_PDU.chi.primary.chi_e5_ch2) CANCEL T_A_STEP	access_receive (setup_receive_call_ref_and_ channel)	(P)	bch_num is changed
4		A_ACCESS_PCO?DL_DAT_IN [TSV_BASIC] (CRef := SETUP_PDU.cr.cr_r, TSV_BCHNUM1 := SETUP_PDU.chi.basic.chi_e3_cs) CANCEL T_A_STEP	access_receive (setup_receive_call_ref_and_ channel)	(P)	bch_num is changed
5		A_ACCESS_PCO?DL_DAT_IN (CRef := SETUP_PDU.cr.cr_r) CANCEL T_A_STEP	access_receive (setup_o_r(CRef))	(P)	valid SETUP
6		? TIMEOUT T_A_STEP		(F)	
7		A_ACCESS_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
8		[TSP_PSEUDO]			
9		START T_A_STEP			
10		A_ACCESS_PCO ? DL_DAT_IN CANCEL T_A_STEP	access_receive (setup_pseudo)	(P)	receive setup and extract out the Call Reference value
11		? TIMEOUT T_A_STEP		(F)	
12		A_ACCESS_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
13		[TSP_MANUAL]			
14		START T_manual			General message sequence receive
15		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_setup_no_channel (CRef:BIT7OR15) Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START T_A_STEP			
3		A_ACCESS_PCO?DL_DAT_IN [NOT TSV_BASIC] (CRef := SETUP_PDU.cr.cr_r , TSV_BCHNUM1 := SETUP_PDU.chi.primary.chi_e5_ch2) CANCEL T_A_STEP	access_receive (setup_no_calling_party_nu mber_no_channel)	(P)	bch_num is changed
4		A_ACCESS_PCO?DL_DAT_IN [TSV_BASIC] (CRef := SETUP_PDU.cr.cr_r, TSV_BCHNUM1 := SETUP_PDU.chi.basic.chi_e3_cs) CANCEL T_A_STEP	access_receive (setup_no_calling_party_nu mber_no_channel)	(P)	bch_num is changed
5		? TIMEOUT T_A_STEP		(F)	
6		A_ACCESS_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
7		[TSP_PSEUDO]			
8		START T_A_STEP			
9		A_ACCESS_PCO ? DL_DAT_IN CANCEL T_A_STEP	access_receive (setup_pseudo)	(P)	
10		? TIMEOUT T_A_STEP		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
12		[TSP_MANUAL]			
13		START T_manual			General message sequence for receiving a setup with no channel
14		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_RECEIVE_setup_with_valid_cpn (CRef:BIT7OR15) Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		START T_A_STEP			
3		A_ACCESS_PCO?DL_DAT_IN [NOT TSV_BASIC] (CRef := SETUP_PDU.cr.cr_r , TSV_BCHNUM1 := SETUP_PDU.chi.primary.chi_e5_ch2) CANCEL T_A_STEP	access_receive (setup_receive_with_valid_cp n)	(P)	bch_num is changed
4		A_ACCESS_PCO?DL_DAT_IN [TSV_BASIC] (CRef := SETUP_PDU.cr.cr_r , TSV_BCHNUM1 := SETUP_PDU.chi.basic.chi_e3_cs) CANCEL T_A_STEP	access_receive (setup_receive_with_valid_cp n)	(P)	bch_num is changed
5		? TIMEOUT T_A_STEP		(F)	
6		A_ACCESS_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
7		[TSP_PSEUDO]			
8		START T_A_STEP			
9		A_ACCESS_PCO ? DL_DAT_IN CANCEL T_A_STEP	access_receive (setup_pseudo)	(P)	receive setup and extract out the Call Reference value
10		? TIMEOUT T_A_STEP		(F)	
11		A_ACCESS_PCO ? OTHERWISE CANCEL T_A_STEP		(F)	
12		[TSP_MANUAL]			
13		START T_manual			General message sequence receive (setup with Reference Call value)
14		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_SEND (sendmsg:PDU) Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		A_ACCESS_PCO ! DL_DAT_RQ	access_send (sendmsg)	(P)	
3		[TSP_PSEUDO]			
4		A_ACCESS_PCO ! DL_DAT_RQ	access_send (pseudo_general)	(P)	
5		[TSP_MANUAL]			
6		START T_manual			General message sequence send
7		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_SEND_CALL_REL(relmes:PDU; rlcmes:PDU) Group : Access_steps/ Objective : To bring the IUT to the state N0. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		A_ACCESS_PCO!DL_DAT_RQ START TAC	access_send(relmes)		
3		A_ACCESS_PCO?DL_DAT_IN CANCEL TAC	access_receive(rlcmes)	(P)	
4		?TIMEOUT TAC		(I)	
5		A_ACCESS_PCO?OTHERWISE CANCEL TAC		(I)	
6		[TSP_MANUAL]			
7		START T_manual			General release procedure send
8		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_SEND_CALL_REL_DEFAULT Group : Access_steps/ Objective : To bring the IUT to the state N0. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		A_ACCESS_PCO!DL_DAT_RQ START TAC	access_send(release_o_s(TC V_flag_dss1,TSV_CREF1,1 6))		
3		A_ACCESS_PCO?DL_DAT_IN CANCEL TAC	access_receive(release_comp_o_r (TSO_COMPLEMENT_F(TC V_flag_dss1), TSV_CREF1))	(P)	
4		?TIMEOUT TAC		(I)	
5		A_ACCESS_PCO?OTHERWISE CANCEL TAC		(I)	
6		[TSP_MANUAL]			
7		START T_manual			General release procedure
8		?TIMEOUT		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : A_access_SEND_dss1 (sendmsg:PDU) Group : Access_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSP_DSS1]			
2		A_ACCESS_PCO ! DL_DAT_RQ	access_send (sendmsg)	(P)	
3		[TSP_PSEUDO]			
4		[TRUE]		(P)	
5		[TSP_MANUAL]			
6		[TRUE]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : DSS1_Preamble Group : Access_steps/ Objective : To bring the IUT to the state N0. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INIT_VARIABLES			(1)
2		A_ACCESS_PCO!DL_REL_RQ START TAC			layer2 release
3		A_ACCESS_PCO?DL_REL_CO CANCEL TAC, START TNOAC		(P)	UA or DM received; layer 2 released
4		A_ACCESS_PCO?DL_EST_IN CANCEL TNOAC		(P)	SABME received
5		?TIMEOUT TNOAC			
6		A_ACCESS_PCO!DL_EST_RQ START TAC			re-establishment
7		A_ACCESS_PCO?DL_EST_CO CANCEL TAC		(P)	UA received; data link established
8		A_ACCESS_PCO?DL_REL_IN		I	DM received; IUT still busy
9		?TIMEOUT TAC		I	no response
10		A_ACCESS_PCO?OTHERWISE		I	invalid event
11		A_ACCESS_PCO?OTHERWISE		I	invalid event
12		?TIMEOUT TAC		I	no response
13		A_ACCESS_PCO?OTHERWISE		I	invalid event
14		INIT_VARIABLES [TSV_BASIC]			
15		(TSV_CREF1:='0000001'B, TSV_GLOBCREF:='0000000'B, TSV_BCHNUM1:='10001001'B)			
16		[NOT TSV_BASIC]			
17		(TSV_CREF1:='0000000000000001'B, TSV_GLOBCREF:='0000000000000000'B, TSV_BCHNUM1:='10001001'B)			
Detailed Comments : The layer 2 of the IUT must have a TEI assigned value before the execution of this preamble. The procedure to assign the TEI value to the IUT is matter for the test laboratory. The layer 2 of the IUT must have a TEI assigned value before the execution of this preamble. The procedure to assign the TEI value to the IUT is matter for the test laboratory. (1) The local subtree INIT_VARIABLES is used to assign initial values to test case variables taking into account the used interface configuration.					

Test Step Dynamic Behaviour					
Test Step Name : free_B_channel (CALL_REF:BIT7OR15)					
Group : Access_steps/					
Objective : Free access resource, B-channel, to accept a waiting call by releasing an existing call.					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+A_access_SEND(disconnect_without_component(TSO_COMPLEMENT_F(TCV_flag_dss1),CALL_REF,16))			
2		+A_access_RECEIVE_CALL_REL_DEFAULT			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : set_B_channels_busy Group : Access_steps/ Objective : Default : Comments : Establishes as many calls as necessary to keep all B-channels busy.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_free_channel:=TSP_MAXB_CHANNEL, TCV_B_cic:=TSP_CIC_R)		(P)	
2		REPEAT establish_call (TCV_free_channel)			
3		UNTIL [TCV_free_channel=0]			
4		(TCV_B_cic:=TSO_NEXT_CIC(TCV_B_cic))			
5		establish_call(Free_chan:INTEGER)			
6		CREATE			
7		(A_ACCESS_PTC:A_step_call_setup,			
8		B_ISUP_PTC:B_CALL_SETUP_BA(IAM_s(TCV_B_cic),ACM_m(TCV_B_cic),ANM_m(TCV_B_cic)))			
9		?DONE (A_ACCESS_PTC,			
10		B_ISUP_PTC)			
11		+check_communication			
12		(Free_chan:=Free_chan-1,			
13		TCV_free_channel:=Free_chan,			
		TCV_B_cic:=TSO_NEXT_CIC(TCV_B_cic))			
		[TCV_free_channel=TSP_MAXB_CHANNEL-1]			
		(TSV_CREFREL:=TSV_CREF1,			
		TSV_BCHNUMREL:=TSV_BCHNUM1)			
		A_step_call_setup			
		+ A_access_RECEIVE_setup(TSV_CREF1)			
		+A_access_SEND (alert_o_r (TSV_CREF1))			
		+A_access_SEND (connect_o_r (TSV_CREF1))			
		+A_access_RECEIVE_dss1 (connect_ack_o_r(TSV_CREF1))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : set_idle_B_channels Group : Access_steps/ Objective : Default : Comments : Releases as many calls as necessary to keep all B-channels busy.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_free_channel:=TSP_MAXB_CHANNE L, TCV_B_cic:=TSP_CIC_R)			
2		REPEAT release_calls (TCV_free_channel) UNTIL [TCV_free_channel=0]			
3		release_calls(Free_chan:INTEGER)			
4		CREATE (A_ACCESS_PTC:disconnect, B_ISUP_PTC:B_SEND_CALL_REL)			
5		?DONE (A_ACCESS_PTC, B_ISUP_PTC)			
6		+check_idle (Free_chan:=Free_chan-1, TCV_free_channel:=Free_chan, TCV_B_cic:=TSO_NEXT_CIC(TCV_B_ cic))			
7		disconnect +A_access_RECEIVE(disconnect_o_r (TSV_CREF1))			Send a disconnect
8		+A_access_RECEIVE_CALL_REL_DEFA ULT			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_ACT_INV_AB Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_CCBS_T1			
2		+ B_CCBS_Activation_AB			
3		+ B_CCBS_Invocation_AB			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_ACT_INV_BA Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_CCBS_T1			
2		+ B_CCBS_Activation_BA			
3		+ B_CCBS_Invocation_BA			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Activation_AB Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1, START T_CCBS_T2	r_TC_BEGIN ("CpbsRequest invoke")		
2		A_SCCP_PCO ! TCAP_REQ CANCEL T_CCBS_T2, START T_CCBS_T3	s_TC_CONTINUE ("CpbsRequest return result")		
3		? TIMEOUT T_CCBS_T1			Retention time expired
4		A_SCCP_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Activation_BA Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ! TCAP_REQ	s_TC_BEGIN ("CpbsRequest invoke")		
2		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1, START T_CCBS_T7	r_TC_CONTINUE ("CpbsRequest return result")		
3		? TIMEOUT T_CCBS_T1		(F)	
4		? TIMEOUT T_CCBS_T7		(F)	
5		A_SCCP_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Activation_RetainSupported_AB					
Group : TCAP_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1, START T_CCBS_T2	r_TC_BEGIN ("CcbsRequest invoke with retainSupported=TRUE") s_TC_CONTINUE ("CcbsRequest return result with retainSupported=TRUE")		Retention time expired
2		A_SCCP_PCO ! TCAP_REQ CANCEL T_CCBS_T2, START T_CCBS_T3			
3		? TIMEOUT T_CCBS_T1			
4		A_SCCP_PCO ? OTHERWISE			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Activation_RetainSupported_BA					
Group : TCAP_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ! TCAP_REQ	s_TC_BEGIN ("CcbsRequest invoke with retainSupported=TRUE") r_TC_CONTINUE ("CcbsRequest return result with retainSupported=TRUE")	(P)	
2		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1, START T_CCBS_T7			
3		? TIMEOUT T_CCBS_T1			
4		? TIMEOUT T_CCBS_T7			
5		A_SCCP_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Activation_fail_AB Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1, START T_CCBS_T2	r_TC_BEGIN ("CcbsRequest invoke")		
2		A_SCCP_PCO ! TCAP_REQ CANCEL T_CCBS_T2	s_TC_END ("CcbsRequest return error")		
3		? TIMEOUT T_CCBS_T1			Retention time expired
4		A_SCCP_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Activation_fail_BA Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ! TCAP_REQ	s_TC_BEGIN ("CcbsRequest invoke")		
2		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T1	r_TC_END ("CcbsRequest return error")		
3		? TIMEOUT T_CCBS_T1			
4		A_SCCP_PCO ? OTHERWISE		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Deactivation_AB Group : TCAP_steps/ Objective : Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ? TCAP_IND CANCEL T_CCBS_T3	r_TC_END ("CCBSDeactivation_invoke")		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Invocation_AB					
Group : TCAP_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ! TCAP_REQ START T_CCBS_T4	s_TC_CONTINUE ("RemoteUserFree")		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : B_CCBS_Invocation_BA					
Group : TCAP_steps/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		A_SCCP_PCO ? TCAP_IND START T_CCBS_T9	r_TC_CONTINUE ("RemoteUserFree")		
Detailed Comments :					