



Standard ECMA-285

4th Edition / December 2011

**ASN.1 for Computer
Supported
Telecommunications
Applications (CSTA)
Phase III**

Standard



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Introduction

This Standard specifies the ASN.1 for Phase III of Services for Computer Supported Telecommunications Applications (CSTA), ECMA-269 9th edition. This Standard is an alternative to the XML Schema Definitions (XSD) in ECMA-323.

This Ecma Standard has been adopted by the General Assembly of December 2011.

ASN.1 Tools Acknowledgement

The ASN.1 specified in this Standard has been checked for conformance with the ASN.1 Standard by the OSS Nokalva, Inc. ASN.1 Tools.

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ASN.1 for Computer Supported Telecommunications Applications (CSTA) Phase III

1 Scope

This Standard specifies application protocol data units (APDUs) for the services described in ECMA-269, Services, for Computer Supported Telecommunications Applications (CSTA) Phase III.

Clause 5 to clause 7 inclusive describes the concepts underlying the Remote Operations model, notation and service.

Clause 8 to clause 27 inclusive contains CSTA-specific message templates in ASN.1.

The APDUs are exchanged in the context of an application association.

2 Conformance

Implementations may include any ASN.1 message definition part specified in this Standard, as long as it satisfies the minimum conformance requirements as specified in Clause 2 of ECMA-269.

As specified and required in ECMA-269 a Protocol Implementation Conformance Statement (PICS) shall be made; for implementations of this standard its edition shall be declared as the protocol version in the PICS.

2.1 Static Requirements

To conform to this Standard, a system shall support the transfer syntax (derived from the encoding rules specified in ITU-T X.690) named {joint-iso-ccitt asn1(1) basic-encoding(1)}; CSTA APDUs shall be interpreted according to ITU-T X.680.

2.2 Dynamic Requirements

To conform to this Standard, a system shall:

- a. follow the procedures as specified in this Standard, and ECMA-269, relevant to each CSTA operation that the system claims to implement; and
- b. satisfy the definitions, as specified in ECMA-269, relevant to each CSTA service that the system claims to implement.

2.3 PICS Requirement

To conform to this Standard, the following shall be stated by the implementer when defining a PICS corresponding to an application or implementation:

- a. which CSTA operations, as defined in ECMA-269, are supported by the system for the particular implementation; and
- b. which optional parameters are supported by the PDUs belonging to the supported operations.

A PICS proforma is given in Annex A of this Standard.

3 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ECMA-269, *Services for Computer Supported Telecommunications Applications (CSTA), Phase III, 9th Edition (December 2011)*

ECMA TR/72, *Glossary of Definitions and Terminology for Computer Supported Telecommunications Applications (CSTA) Phase III, 3rd Edition (June 2000)*

ISO/IEC 8649:1996, *Information technology - Open Systems Interconnection – Service definition for the Association Control Service Element (this corresponds to ITU-T Rec. X.217 1995)*

ISO/IEC 8650-1:1996, *Information technology - Open Systems Interconnection - Connection-oriented protocol for the Association Control Service Element: Protocol specification (this corresponds to ITU-T Rec. X.227 4/95)*

ISO/IEC 9545:1994, *Information technology - Open Systems Interconnection Application Layer structure*

ISO/IEC 13712-1:1995, *Information technology - Remote Operations: Concepts, model, and notation (this corresponds to ITU-T Rec. X.880, 1994)*

ISO/IEC 13712-2:1994, *Information technology - Remote Operations: OSI realisations - Remote Operations Service Element (ROSE) service definition (this corresponds to ITU-T Rec. X.881, 1994)*

ISO/IEC 13712-3:1994, *Information technology - Remote Operations: OSI realisations - Remote Operations Service Element (ROSE) protocol specification (this corresponds to ITU-T Rec.X.882, 1994)*

ITU-T X.680, *Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation*

ITU-T X.690, *Information technology - ASN.1 encoding rules - Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)*

ITU-T X.694, *ASN.1 encoding rules: Mapping W3C XML schema definitions into ASN.1*

RFC 4119, *A Presence-based GEOPRIV Location Object Format*

RFC 3966, *The tel URI for Telephone Numbers*

ISO 3166-1, *Country Codes*

4 Definitions and Abbreviations

CSTA-specific terminology is defined in ECMA TR/72. For the purposes of this Standard, the following additional definitions, defined in other standards, shall apply:

- Remote Operations (as per ISO/IEC 13712-1)
- Application Association (as per ISO/IEC 8649)
- Application Context (as per ISO/IEC 8649)

5 CSTA Service Definition Model

5.1 CSTA Application Layer Structure

The CSTA Application Layer structure conforms to the model described in ISO/IEC 9545.

5.2 Remote Operations

The services of CSTA are modeled as Remote Operations as described in ISO/IEC 13712-1. Typically, one entity requests that a particular operation be performed; the other entity attempts to perform the operation and responds to the requestor.

Consequently the operation of the protocol is an elementary request/reply interaction, supported within the OSI Application Layer, and carried out within the context of an application association. The protocol specifications in ECMA-269 determine the class of the operation.

For some of the CSTA services, the entity to which the request is sent generates a reply which can indicate success or failure.

For these services, implementations shall use the operations Class 2, defined in ISO/IEC 13712-2 as:

- Asynchronous, reporting success or failure (result or error).

For some of the CSTA services, the entity to which the request is sent generates a reply which can only indicate failure.

For these services, implementations shall use the operations Class 3, defined in ISO/IEC 13712-2 as:

- Asynchronous, reporting failure (error) only, if any.

For some of the CSTA services, particularly the ongoing reporting of events, no reply is generated.

For these services, implementations shall use the operations Class 5, defined in ISO/IEC 13712-2 as:

- Asynchronous, outcome not reported.

Implementations shall correlate the single response, denoting success or failure, with the originating request by using the mechanisms within the ROSE protocol.

5.3 The CSTA Service Response

CSTA employs a generic response mechanism which is, in principle, decoupled from the specifics of the switching activity.

The following points describe the operation of the CSTA service response:

- a. Specific services may have an unconfirmed mode where responses to correct requests are not returned.
- b. The server shall check the correctness of the request (e.g. syntactical checks) before issuing the response.
Incorrect requests shall result in an error response, even in the unconfirmed mode.

5.4 Cross Referencing of Event Reports

A computer application process may need to cross reference a CSTAEVENTReport to one of the following:

- a. a CSTA Object ID (Call ID or Device ID),
- b. an earlier Monitor request; or
- c. one of many Monitor requests (pertaining to the same CSTA Object).

For the above scenarios the necessary cross referencing function may be fulfilled by use of the parameter "MonitorCrossRefID". The content of MonitorCrossRefID depends upon the context and it may be one of the following: Call ID, Device ID or another independently switch managed static identifier.

The independent identifier may have a unique correlation to either: one device, one call, or one monitor request.

The switching system limit on the number of monitor requests on one CSTA Object (Call or Device) is an implementation option. This Standard does not stipulate how many monitor requests on one object are to be supported by the switch. If using Static Device or Call identifiers the limit can only be one.

5.5 Handling of Private Data

If an entity receives the parameter CSTAPrivateData, and it can not recognize the information contained, the parameter shall be discarded, and the rest of the message shall be processed.

6 Interconnection service boundary

The APDUs in this Standard are exchanged in the context of an association and by using the Remote Operations protocol defined in ISO/IEC 13712-3, which assumes that certain services are provided by the underlying layers.

7 Security

The authentication mechanism of ACSE may be used.

8 Association Management

The APDUs in this Standard are exchanged in the context of an application association. This application association can be either:

- an implicit association achieved via off-line agreement; or
- a dynamically negotiated association realized through the use of ACSE.

8.1 Implicit association

An a-priori agreement exists between switching and computing functions: the application context is implicit, dynamic negotiation is not possible.

8.2 Dynamic association management using ACSE

ACSE requires the use of an application context Name (as defined by ISO 8649). This is an object id that uniquely identifies CSTA independently of the different versions.

The CSTA protocol version information is carried within the User Information field of the A-ASSOCIATE request and response PDUs.

An application context is established (using ACSE) as follows:

- the system generating the A-ASSOCIATE request includes the CSTA application context name and a list of all protocol versions that it is prepared to offer in the User Information field;
- on receipt of the A-ASSOCIATE request, the receiving system selects the protocol version to be used by identifying the highest version that is common to both systems;
- the protocol version selected is conveyed to the requestor in the User Information field of the A-ASSOCIATE response.

In addition to negotiating the protocol version, it is necessary for the requesting and responding systems to specify the CSTA services that they support. As with the protocol version information, this is also achieved by carrying additional information in the User Information field of the A-ASSOCIATE request and response PDUs.

The application association requestor shall:

- list the services required from the serving application;
- list the services it can supply.

The responder shall include similar information for the responding application. At this point the association requestor will either accept or reject the association.

8.2.1 Encoding of application context name

```
CSTA-application-context-name
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta( 218 ) }
-- Common to all CSTA protocol versions
```

8.2.2 Encoding of application context information

```
CSTA-application-context-information-csta3
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) application-context-information( 200 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
CSTAFunctionality FROM CSTA-application-context-information
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta2( 218 ) application-context-information( 200 ) };

ACSEUserInformationForCSTA ::= CHOICE
{   oldDefinition                               OldACSEUserInformationForCSTA,
    newDefinition      [0] IMPLICIT           NewACSEUserInformationForCSTA }

OldACSEUserInformationForCSTA ::= SEQUENCE
{   cSTAVersion                                CSTAVersion,
    cSTAFuctionsRequiredByApplication          CSTAFunctionality,
    cSTAFuctionsThatCanBeSupplied             CSTAFunctionality }

NewACSEUserInformationForCSTA ::= SEQUENCE
{   cSTAVersion                                CSTAVersion,
  --
  -- Note that the following two parameters are defined in ECMA-218 (CSTA Phase II).
  -- They are defined in the context of CSTA Phase II Services and Events for
  -- backward compatibility considerations.
  -- For CSTA Phase III (and later), implementations should use CSTA Capability Exchange
  -- Services to determine the Services and Events supported by a switching function.
  --
  cSTAFuctionsRequiredByApplication [0] IMPLICIT CSTAFunctionality           OPTIONAL,
  cSTAFuctionsThatCanBeSupplied       [1] IMPLICIT CSTAFunctionality           OPTIONAL,
  cSTAPrivateDataVersionList         [2] IMPLICIT CSTAPrivateDataVersionList OPTIONAL }

CSTAPrivateDataVersionList ::= SEQUENCE OF INTEGER
```

```
CSTAVersion ::= BIT STRING
{
    versionOne      ( 0), -- ECMA-180
    versionTwo      ( 1), -- ECMA-218
    versionThree    ( 2), -- ECMA-285, 1st Edition
    versionFour     ( 3), -- ISO/IEC 18052
    versionFive     ( 4), -- ECMA-285, 2nd Edition
    versionSix      ( 5), -- ECMA-323
    versionSeven    ( 6), -- ECMA-323, 2nd Edition
    versionEight    ( 7), -- ECMA-323, 3rd Edition
    versionNine     ( 8), -- ECMA-323, 4th Edition, Tag option
    versionTen      ( 9), -- ECMA-323, 4th Edition, short Tag option
    versionEleven   (10), -- ECMA-323, 4th Edition, dynamic transformation option
    versionTwelve   (11), -- ECMA-323, 5th Edition, Tag option
    versionThirteen (12), -- ECMA-323, 5th Edition, short Tag option
    versionFourteen (13), -- ECMA-323, 5th Edition, dynamic transformation option
    versionFifteen  (14), -- ECMA-285, 3rd Edition
    versionSixteen  (15), -- ECMA-323, 6th Edition, Tag option
    versionSeventeen(16), -- ECMA-323, 6th Edition, short Tag option
    versionEighteen (17), -- ECMA-323, 6th Edition, dynamic transformation option
    versionNineteen (18), -- ECMA-285, 4th Edition
    versionTwenty   (19), -- Reserved for future use
    versionTwentyone(20), -- Reserved for future use
    versionTwentytwo(21), -- Reserved for future use
    versionTwentythree(22), -- Reserved for future use
    versionTwentyfour(23) } -- Reserved for future use

CallControlServices ::= BIT STRING
{
    acceptCall          ( 0),
    alternateCall       ( 1),
    answerCall          ( 2),
    callBack           ( 3),
    callBackMessage    ( 4),
    campOnCall         ( 5),
    clearCall          ( 6),
    clearConnection    ( 7),
    conferenceCall     ( 8),
    consultationCall   ( 9),
    deflectCall        (10),
    dialDigits         (11),
    directedPickupCall(12),
    groupPickupCall   (13),
    holdCall           (14),
    intrudeCall        (15),
    joinCall           (16),
    makeCall           (17),
    makeConnection     (25),
    makePredictiveCall(18),
    parkCall           (19),
    reconnectCall      (20),
    retrieveCall       (21),
    sendMessage        (26),
    singleStepConference(22),
    singleStepTransfer (23),
    transferCall       (24) }

CallAssociatedServices ::= BIT STRING
{
    associateData      ( 0),
    cancelTelephonyTones( 1),
    changeConnectionInformation( 5),
    generateDigits     ( 2),
```

```

generateTelephonyTones          ( 3 ),
sendUserInformation             ( 4 ) }

MediaAttachmentServices ::= BIT STRING
{
    attachMediaService           ( 0 ),
    detachMediaService          ( 1 ) }

RouteingServices ::= BIT STRING
{
    routeRegister                ( 0 ),
    routeRegisterCancel          ( 1 ),
    routeRegisterAbort           ( 2 ),
    reroute                      ( 3 ),
    routeEnd                     ( 4 ),
    routeReject                  ( 5 ),
    routeRequest                 ( 6 ),
    routeSelect                  ( 7 ),
    routeUsed                    ( 8 ) }

VoiceUnitServices ::= BIT STRING
{
    activate                     (12),
    clear                        (13),
    concatenateMessage           ( 0 ),
    deactivate                   (14),
    deleteMessage                ( 1 ),
    playMessage                  ( 2 ),
    queryVoiceAttribute          ( 3 ),
    recordMessage                ( 4 ),
    reposition                    ( 5 ),
    resume                       ( 6 ),
    review                       ( 7 ),
    setVoiceAttribute             ( 8 ),
    stop                          ( 9 ),
    suspend                      (10),
    synthesizeMessage            (11) }

LocationServices ::= BIT STRING
{
    getLocationInformation        ( 0 ),
    setLocationInformation        ( 1 ),
    locationTrackkingSessionResumed ( 2 ),
    locationTrackkingSessionSuspended ( 3 ),
    resumeLocationTrackingSession ( 4 ),
    locationInformationReport     ( 5 ),
    startLocationTrackingSession  ( 6 ),
    stopLocationTrackingSession   ( 7 ),
    suspendLocationTrackingCapabilities ( 8 ),
    locationSessionInfo           ( 9 ) }

CallControlEvents ::= BIT STRING
{
    bridged                      (15),
    callCleared                  ( 0 ),
    conferenced                  ( 1 ),
    connectionCleared            ( 2 ),
    delivered                     ( 3 ),
    digitsDialed                 (14),
    diverted                     ( 4 ),
    established                  ( 5 ),
    failed                       ( 6 ),
    held                          ( 7 ),
    networkCapabilitiesChanged   (16),
    networkReached                ( 8 ),
}

```

```

offered                                (17),
originated                             ( 9),
queued                                  (10),
retrieved                               (11),
serviceInitiated                      (12),
transferred                            (13) }

CallAssociatedEvents ::= BIT STRING
{
    callInformation                     ( 0),
    charging                            ( 1),
    dtMFDigitsDetected                 ( 2),
    telephonyTonesDetected             ( 3),
    serviceCompletionFailure           ( 4) }

MediaAttachmentEvents ::= BIT STRING
{
    mediaAttached                       ( 0),
    mediaDetached                      ( 1) }

PhysicalDeviceFeatureEvents ::= BIT STRING
{
    buttonInformation                  ( 0),
    buttonPress                        ( 1),
    displayUpdated                     ( 2),
    hookswitch                         ( 3),
    lampMode                           ( 4),
    messageWaiting                    ( 5),
    microphoneGain                   ( 6),
    microphoneMute                   ( 7),
    ringerStatus                      ( 8),
    speakerMute                       ( 9),
    speakerVolume                     (10) }

LogicalDeviceFeatureEvents ::= BIT STRING
{
    agentBusy                          ( 0),
    agentLoggedOn                     ( 1),
    agentLoggedOff                    ( 2),
    agentNotReady                    ( 3),
    agentReady                        ( 4),
    agentWorkingAfterCall            ( 5),
    autoAnswer                        ( 6),
    autoWorkMode                      ( 7),
    callBack                          ( 8),
    callBackMessage                  ( 9),
    callerIDStatus                   (10),
    doNotDisturb                     (11),
    forwarding                        (12),
    presenceState                    (14),
    routeingMode                     (13) }

DeviceMaintenanceEvents ::= BIT STRING
{
    backInService                     ( 0),
    deviceCapabilityChanged          ( 2),
    outOfService                      ( 1),
    partiallyInService                ( 3) }

VoiceUnitEvents ::= BIT STRING
{
    bookmarkReached                  ( 7),
    completed                        ( 8),
    dtmfDetected                     ( 9),
    emptied                          (10),
    interruptionDetected            (11),
}

```

```
notRecognized          (12),
play                  ( 1),
recognized            (13),
record                ( 3),
review                ( 5),
started               (14),
silenceTimeoutExpired (15),
speechDetected        (16),
stop                 ( 0),
suspendPlay           ( 2),
suspendRecord          ( 4),
voiceAttributesChange ( 6),
voiceErrorOccured     (17) }

VendorSpecEvents ::= BIT STRING
{      privateEvent          ( 0) }

END -- of CSTA-application-context-information-csta3
```

9 CSTA parameter types

The major parameters have been assigned distinct application tags to facilitate parsing. The data is defined in logical groups in ascending order of application tag. Application tags used are:

- APPLICATION 1 - 8: Device identifiers
- APPLICATION 11 - 14: Connection identifiers and local connection states
- APPLICATION 21 - 24 : Status reporting
- APPLICATION 29 - 30 : CSTACCommonArguments

9.1 Switching function objects

```
CSTA-switching-function-objects
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) switching-function-objects( 122) }

DEFINITIONS ::=

BEGIN

EXPORTS
CSTAObject;

IMPORTS
DeviceID FROM CSTA-device-identifiers
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) call-connection-identifiers( 124) };

CSTAObject ::= CHOICE
{   deviceObject DeviceID,
    callObject   ConnectionID }

END -- of CSTA-switching-function-objects
```

9.2 Device Identifiers

```

CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }

DEFINITIONS ::=

BEGIN

EXPORTS
DeviceID, NumberDigits, CallingDeviceID, CalledDeviceID,
SubjectDeviceID, RedirectionDeviceID, AssociatedCallingDeviceID,
AssociatedCalledDeviceID, NetworkCallingDeviceID, NetworkCalledDeviceID;

IMPORTS
MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

ExtendedDeviceID ::= [APPLICATION 9] CHOICE
{ deviceIdentifier          DeviceID,
  notKnown                  [ 7] IMPLICIT    NULL,
  restricted                [ 8] IMPLICIT    NULL }

CallingDeviceID ::= [APPLICATION 1] CHOICE
{ deviceIdentifier          DeviceID,
  notKnown                  [ 7] IMPLICIT    NULL,
  restricted                [ 8] IMPLICIT    NULL }

CallingDevice ::= CallingDeviceID

CalledDeviceID ::= [APPLICATION 2] CHOICE
{ deviceIdentifier          DeviceID,
  notKnown                  [ 7] IMPLICIT    NULL,
  restricted                [ 8] IMPLICIT    NULL }

CalledDevice ::= CalledDeviceID

SubjectDeviceID ::= [APPLICATION 3] CHOICE
{ deviceIdentifier          DeviceID,
  notKnown                  [ 7] IMPLICIT    NULL,
  restricted                [ 8] IMPLICIT    NULL }

RedirectionDeviceID ::= [APPLICATION 4] CHOICE
{ numberdialed              DeviceID,
  notKnown                  [ 7] IMPLICIT    NULL,
  notRequired               [ 8] IMPLICIT    NULL,
  notSpecified              [ 9] IMPLICIT    NULL,
  restricted                [10] IMPLICIT    NULL }

LastRedirectionDevice ::= RedirectionDeviceID

AssociatedCallingDeviceID ::= [APPLICATION 5] CHOICE
{ deviceIdentifier          DeviceID,
  notKnown                  [ 7] IMPLICIT    NULL,
  restricted                [ 8] IMPLICIT    NULL }

AssociatedCallingDevice ::= AssociatedCallingDeviceID

```

```

AssociatedCalledDeviceID ::= [APPLICATION 6] CHOICE
{   deviceIdentifier           DeviceID,
    notKnown                  [ 7] IMPLICIT  NULL,
    restricted                [ 8] IMPLICIT  NULL  }

AssociatedCalledDevice ::= AssociatedCalledDeviceID

NetworkCallingDeviceID ::= [APPLICATION 7] CHOICE
{   deviceIdentifier           DeviceID,
    notKnown                  [ 7] IMPLICIT  NULL,
    restricted                [ 8] IMPLICIT  NULL  }

NetworkCallingDevice ::= NetworkCallingDeviceID

NetworkCalledDeviceID ::= [APPLICATION 8] CHOICE
{   deviceIdentifier           DeviceID,
    notKnown                  [ 7] IMPLICIT  NULL,
    restricted                [ 8] IMPLICIT  NULL  }

NetworkCalledDevice ::= NetworkCalledDeviceID

DeviceID ::= SEQUENCE
{   deviceIdentifier CHOICE
    {   dialingNumber          [ 0] IMPLICIT  NumberDigits,
        deviceNumber           [ 1] IMPLICIT  DeviceNumber,
        implicitPublic         [ 2] IMPLICIT  NumberDigits,
        explicitPublic          [ 3] PublicTON,
        implicitPrivate         [ 4] IMPLICIT  NumberDigits,
        explicitPrivate          [ 5] PrivateTON,
        other                   [ 6] IMPLICIT  OtherPlan },
    privateNumber             [ 0] NumberDigits          OPTIONAL,
    privateName               [ 1] IA5String            OPTIONAL,
    mediaCallCharacteristics MediaCallCharacteristics  OPTIONAL  }

PublicTON ::= CHOICE
{   unknown                 [ 0] IMPLICIT  IA5String,
    international            [ 1] IMPLICIT  IA5String,
    national                 [ 2] IMPLICIT  IA5String,
    networkspecific          [ 3] IMPLICIT  IA5String,
    subscriber               [ 4] IMPLICIT  IA5String,
    abbreviated              [ 5] IMPLICIT  IA5String  }

PrivateTON ::= CHOICE
{   unknown                 [ 0] IMPLICIT  IA5String,
    level3RegionalNumber    [ 1] IMPLICIT  IA5String,
    level2RegionalNumber    [ 2] IMPLICIT  IA5String,
    level1RegionalNumber    [ 3] IMPLICIT  IA5String,
    pTNSpecificNumber       [ 4] IMPLICIT  IA5String,
    localNumber              [ 5] IMPLICIT  IA5String,
    abbreviated              [ 6] IMPLICIT  IA5String  }

OtherPlan ::= OCTET STRING -- Allows future expansion to cover other numbering
                           -- plans

NumberDigits ::= IA5String

DeviceNumber ::= INTEGER

END -- of CSTA-device-identifier

```

9.3 Call and connection identifiers

```

CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

DEFINITIONS ::=

BEGIN

EXPORTS
CallID, ConnectionID;

IMPORTS
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) };

ConnectionID ::= [APPLICATION 11] CHOICE
{   callID          [0] IMPLICIT      CallID,
    deviceID        [1]             LocalDeviceID,
    both SEQUENCE
    {       callID      [0] IMPLICIT      CallID,
      deviceID      [1]             LocalDeviceID } }

CallID ::= OCTET STRING

LocalDeviceID ::= CHOICE
{   staticID        DeviceID,
  dynamicID       [3] IMPLICIT      OCTET STRING }

END -- of CSTA-call-connection-identifiers

```

9.4 Connection states

```

CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }

DEFINITIONS ::=

BEGIN

EXPORTS
ConnectionList, LocalConnectionState;

IMPORTS
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

ConnectionList ::= SEQUENCE OF SEQUENCE
{ newConnection      [0] ConnectionID           OPTIONAL,
  oldConnection      [1] ConnectionID           OPTIONAL,
  endpoint          [2] CHOICE
    { deviceID       DeviceID,
      notKnown        NULL,
      restricted      [1] NULL }                 OPTIONAL,
  associatedNID     [3] CHOICE
    { deviceID       DeviceID,
      notKnown        NULL }                 OPTIONAL,
  resultingConnectionInfo ConnectionInformation OPTIONAL }

LocalConnectionState ::= [APPLICATION 14] IMPLICIT ENUMERATED
{ null      (0),
  initiated (1),
  alerting   (2),
  connected  (3),
  hold      (4),
  queued     (5),
  fail      (6) }

END -- CSTA-connection-states

```

9.5 Status reporting

```

CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }

DEFINITIONS ::=

BEGIN

EXPORTS
MonitorObject, MonitorCrossRefID, MonitorFilter, MonitorType,
MonitorMediaClass, SnapshotCallData, SnapshotDeviceData, RegistrationTypeList, RegistrationList,
MonitorList, LocationSessionInfoList;

IMPORTS
CallControlEvents, CallAssociatedEvents, MediaAttachmentEvents,
PhysicalDeviceFeatureEvents, LogicalDeviceFeatureEvents,
DeviceMaintenanceEvents, VoiceUnitEvents, VendorSpecEvents
FROM CSTA-application-context-information-csta3
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) application-context-information( 200) }
ServicesPermitted, LocationInfoList, CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control(130) }
CSTAObject FROM CSTA-switching-function-objects
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) switching-function-objects( 122) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
ConnectionInformation, MediaCallCharacteristics, MediaServiceType,
MediaServiceInstanceID, MediaStreamID FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

MonitorObject ::= CSTAObject

MonitorCrossRefID ::= [APPLICATION 21] IMPLICIT OCTET STRING

MonitorFilter ::= SEQUENCE-- default is no filter (i.e. all events)
{ callControl          [0] IMPLICIT CallControlEvents      DEFAULT { },
  callAssociated       [6] IMPLICIT CallAssociatedEvents  DEFAULT { },
  mediaAttachment      [7] IMPLICIT MediaAttachmentEvents DEFAULT { },
  physicalDeviceFeature [8] IMPLICIT PhysicalDeviceFeatureEvents DEFAULT { },
  logicalDeviceFeature [9] IMPLICIT LogicalDeviceFeatureEvents DEFAULT { },
  maintenance          [3] IMPLICIT DeviceMaintenanceEvents DEFAULT { },
  voiceUnit            [5] IMPLICIT VoiceUnitEvents        DEFAULT { },
  private              [4] IMPLICIT VendorSpecEvents     DEFAULT { } }

-- setting the relevant bit requests the filter for the appropriate events

```

```
MonitorType ::= ENUMERATED
{   call                      (0),
    device                     (1) }

MonitorList ::= SEQUENCE OF MonitorListEntry

MonitorListEntry ::= SEQUENCE
{   monitorCrossRefID          MonitorCrossRefID,
    monitorObject              DeviceID }

RegistrationTypeList ::= SEQUENCE OF RegistrationType

RegistrationType ::= ENUMERATED
{   escapeRegister             (1),
    ioRegister                 (2),
    routeRegister               (3),
    sysStatRegister             (4) }

RegistrationList ::= SEQUENCE OF RegistrationListEntry

RegistrationListEntry ::= SEQUENCE
{   registrationType           RegistrationType,
    registrationID             IA5String,
    registrationObject          DeviceID
                                OPTIONAL }

LocationSessionInfoList ::= SEQUENCE OF LocationSessionListEntry

LocationSessionListEntry ::= SEQUENCE
{   locCrossRefID               LocCrossRefID,
    locDevice                   DeviceID }

MonitorMediaClass ::= BIT STRING
{   voice                      ( 0),
    data                        ( 1),
    image                       ( 2),
    audio                       ( 4),
    other                       ( 3),
    notKnown                     ( 5),
    chat                         ( 6),
    email                        ( 7),
    message                      ( 8),
    im                            ( 9),
    sms                          (10),
    mms                          (11) }

SnapshotDeviceData ::= [APPLICATION 22] IMPLICIT SEQUENCE OF SnapshotDeviceResponseInfo

SnapshotDeviceResponseInfo ::= SEQUENCE
{   connectionIdentifier        ConnectionID,
    endpointDevice              [3] IMPLICIT SubjectDeviceID
                                OPTIONAL,
    localCallState               CallState,
    servicesPermitted            [0] IMPLICIT ServicesPermitted
                                OPTIONAL,
    mediaServiceInfoList         [1] IMPLICIT DeviceMediaInfoList
                                OPTIONAL,
    mediaCallCharacteristics    [2] IMPLICIT MediaCallCharacteristics
                                OPTIONAL,
    callLinkageData              [4] IMPLICIT CallLinkageData
                                OPTIONAL }
}
```

```

DeviceMediaInfoList ::= SEQUENCE OF SEQUENCE
{   mediaStreamID           MediaStreamID          OPTIONAL,
    connectionInformation     ConnectionInformation  OPTIONAL }

SnapshotCallData ::= [APPLICATION 23] IMPLICIT SEQUENCE OF SnapshotCallResponseInfo

SnapshotCallResponseInfo ::= SEQUENCE
{   deviceOnCall             SubjectDeviceID,
    callIdentifier           ConnectionID          OPTIONAL,
    localConnectionState     LocalConnectionState  OPTIONAL,
    servicesPermitted        [0] IMPLICIT ServicesPermitted  OPTIONAL,
    mediaServiceInfoList      [1] IMPLICIT CallMediaInfoList  OPTIONAL,
    locationInfo              [2] IMPLICIT LocationInfoList  OPTIONAL }

CallMediaInfoList ::= SEQUENCE OF SEQUENCE
{   mediaServiceType         [0] IMPLICIT MediaServiceType,
    mediaServiceVersion       [1] IMPLICIT INTEGER        OPTIONAL,
    mediaServiceInstance       [2] IMPLICIT MediaServiceInstanceID  OPTIONAL,
    mediaStreamID             [3] IMPLICIT MediaStreamID        OPTIONAL,
    connectionInformation     [4] IMPLICIT ConnectionInformation  OPTIONAL }

CallState ::= CHOICE
{   compoundCallState        [0] IMPLICIT CompoundCallState,
    simpleCallState           [1] IMPLICIT SimpleCallState,
    unknown                   [2] IMPLICIT NULL }

CompoundCallState ::= SEQUENCE OF LocalConnectionState

SimpleCallState ::= ENUMERATED
{   callNull                 ( 0 ), -- '00'H      - null-null
    callPending               ( 1 ), -- '01'H      - null-initiate
    callOriginated            ( 3 ), -- '03'H      - null-connect
    callDelivered              ( 35 ), -- '23'H     - alerting-connect
    callDeliveredHeld          ( 36 ), -- '24'H     - alerting-held
    callReceived               ( 50 ), -- '32'H     - connect-alerting
    callEstablished            ( 51 ), -- '33'H     - connect-connect
    callEstablishedHeld        ( 52 ), -- '34'H     - connected-held
    callReceivedOnHold         ( 66 ), -- '42'H     - held-alerting
    callEstablishedOnHold      ( 67 ), -- '43'H     - held-connect
    callQueued                 ( 83 ), -- '53'H     - queued-connect
    callQueuedHeld             ( 84 ), -- '54'H     - queued-held
    callFailed                  ( 99 ), -- '63'H     - failed-connect
    callFailedHeld             (100 ), -- '64'H     - failed-held
    callBlocked                ( 96 ) } -- '60'H     - failed-null }

-- This represents the main call states in a simplified encoding. The semantics
-- are identical to the sequence of connection states but they are represented by
-- an item from an enumerated list.

END -- of CSTA-status-reporting

```

9.6 Device and feature types and other parameters

```

CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) device-feature-types( 127) }

DEFINITIONS ::=

BEGIN

EXPORTS
AccountInfo, AgentID, AgentPassword, AgentState, AuthCode, CallOrigination, CorrelatorData,
DataPathType, DisplayAttributeList, ForwardList, IOCrossRefID, IOResisterReqID,
MessageID, ParticipationType, PendingAgentState, RetryValue, RouteRegisterReqID,
RouteingCrossRefID, SelectValue, SysStatRegisterID, SystemStatus, TerminatingConditions,
ForwardingType, ForwardDefault, AttributeInfo, EncodingAlgorithm, ControlData, UserData,
TelephonyTone, DeviceHistory, SubjectOfCall, LanguagePreferences, MessageInfo,
LocReason, LocCrossRefID, ResourceID, PresenceState;

IMPORTS
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) call-connection-identifiers( 124) }
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) event-causes( 121) };

AccountInfo ::= OCTET STRING

AgentID ::= OCTET STRING

AgentPassword ::= OCTET STRING

AgentState ::= ENUMERATED
{
  agentNotReady      (0),
  agentNull          (1),
  agentReady         (2),
  agentBusy          (3),
  agentWorkingAfterCall (4) }

AuthCode ::= OCTET STRING

CorrelatorData ::= OCTET STRING

IOCrossRefID ::= CHOICE
{
  switchProvided     [0] OCTET STRING ,
  computerProvided   [1] OCTET STRING }

IOResisterReqID ::= OCTET STRING

MessageID ::= OCTET STRING

ParticipationType ::= ENUMERATED
{
  silent              (0),
  active              (1),
  none                (2) }

```

```

RouteRegisterReqID ::= OCTET STRING

RouteingCrossRefID ::= [APPLICATION 24] IMPLICIT OCTET STRING

SelectValue ::= ENUMERATED
{
    normal          (0),
    leastCost       (1),
    emergency      (2),
    aCD             (3),
    userDefined     (4) }

RetryValue ::= CHOICE -- used in RouteSelect Request service
{
    noListAvailable [0] IMPLICIT BOOLEAN,
    noCountAvailable [1] IMPLICIT BOOLEAN,
    retryCount      [2] IMPLICIT INTEGER }

SysStatRegisterID ::= OCTET STRING

SystemStatus ::= ENUMERATED
{
    disabled        (4),
    partiallyDisabled (8),
    enabled         (1),
    initializing    (0),
    messagesLost    (3),
    normal          (2),
    overloadImminent (5),
    overloadReached (6),
    overloadRelieved (7) }

CallOrigination ::= BIT STRING
{
    internal        (0),
    external         (1) }

ForwardList ::= SEQUENCE OF SEQUENCE
{
    forwardingType   ForwardingType           OPTIONAL,
    forwardStatus    BOOLEAN,
    forwardDN        DeviceID                OPTIONAL,
    forwardDefault   ForwardDefault          OPTIONAL,
    ringDuration     [0] IMPLICIT INTEGER    OPTIONAL,
    ringCount        INTEGER (1..100)          OPTIONAL }

ForwardingType ::= ENUMERATED
{
    forwardImmediate ( 0),
    forwardBusy      ( 1),
    forwardNoAns    ( 2),
    forwardDND      ( 9),
    forwardBusyInt  ( 3),
    forwardBusyExt  ( 4),
    forwardNoAnsInt ( 5),
    forwardNoAnsExt ( 6),
    forwardImmInt   ( 7),
    forwardImmExt   ( 8),
    forwardDNDInt   (10),
    forwardDNDExt  (11) }

ForwardDefault ::= ENUMERATED
{
    forwardingTypeAndForwardDN ( 0),
    forwardingType      ( 1),
    forwardDN           ( 2) }

```

```

PendingAgentState ::= ENUMERATED
{   agentNotReady          ( 0),
    agentNull              ( 1),
    agentReady              ( 2),
    agentWorkingAfterCall  ( 3) }

DataPathType ::= ENUMERATED
{   text                  ( 0),
    voice                 ( 1) }

DisplayAttributeList ::= SEQUENCE
{   physicalBaseRowNumber [0] IMPLICIT INTEGER OPTIONAL,
    physicalBaseColumnNumber [1] IMPLICIT INTEGER OPTIONAL,
    offset                 [2] IMPLICIT INTEGER OPTIONAL }

TerminatingConditions ::= BIT STRING
{   durationExceeded      ( 0),
    dTMFDigitDetected     ( 1),
    endOfMessageDetected   ( 2),
    speechDetected         ( 3) }

AttributeInfo ::= CHOICE
{   encodingAlgorithm      [0] IMPLICIT EncodingAlgorithm,
    samplingRate            [1] IMPLICIT INTEGER,
    duration                [2] IMPLICIT INTEGER,
    filename                [3] IMPLICIT IA5String,
    currentPosition          [4] IMPLICIT INTEGER,
    currentSpeed             [5] IMPLICIT INTEGER,
    currentVolume            [6] IMPLICIT INTEGER (0 .. 100),
    currentGain              [7] IMPLICIT INTEGER (0 .. 100),
    currentState             [8] IMPLICIT CurrentState }

EncodingAlgorithm ::= ENUMERATED
{   aDPCM6K                ( 0),
    aDPCM8K                ( 1),
    muLawPCM6K              ( 2),
    aLawPCM6K               ( 3) }

LocReason ::= ENUMERATED
{   connectionToDeviceOrNetworkRestored ( 0),
    performanceConditionRelieved       ( 1) }

LocCrossRefID ::= IA5String

CurrentState ::= ENUMERATED
{   dtmfDetected           ( 6),
    formed                 ( 7),
    play                   ( 1),
    playing                ( 8),
    ready                  ( 9),
    record                 ( 2),
    review                 ( 5),
    speechDetected         (10),
    started                (11),
    stop                   ( 0),
    suspendPlay            ( 3),
    suspendRecord          ( 4) }

ResourceID ::= IA5String

```

```

MessageInfo ::= SEQUENCE
{   contents                  IA5String,
    contentTypeAndSubtype     IA5String
    contentsLength            INTEGER
                                OPTIONAL,
                                OPTIONAL }

DeviceHistory ::= SEQUENCE
{   oldDeviceID               DeviceID,
    eventCause                 [1] IMPLICIT EventCause
    oldConnectionID            [2] IMPLICIT ConnectionID
                                OPTIONAL,
                                OPTIONAL }

SubjectOfCall ::= IA5String

LanguagePreferences ::= IA5String

ControlData ::= SEQUENCE
{   gender        ENUMERATED
    {   male          (0),
        female        (1) },
    language       OCTET STRING }

UserData ::= [APPLICATION 29] OCTET STRING

TelephonyTone ::= ENUMERATED
{   beep           ( 0),
    billing         ( 1),
    busy            ( 2),
    carrier          ( 3),
    confirmation     ( 4),
    dial             ( 5),
    faxCNG          ( 6),
    hold             ( 7),
    howler           ( 8),
    intrusion         ( 9),
    modemCNG         ( 10),
    park              ( 11),
    recordWarning     ( 12),
    reorder           ( 13),
    ringback          ( 14),
    silence            ( 15),
    sitVC             ( 16),
    sitIC             ( 17),
    sitRO             ( 18),
    sitNC             ( 19),
    switchSpec0        ( 20),
    switchSpec1        ( 21),
    switchSpec2        ( 22),
    switchSpec3        ( 23),
    switchSpec4        ( 24),
    switchSpec5        ( 25),
    switchSpec6        ( 26),
    switchSpec7        ( 27),
    switchSpec8        ( 28),
    switchSpec9        ( 29),
    switchSpec10       ( 30),
    switchSpec11       ( 31),
    switchSpec12       ( 32),
    switchSpec13       ( 33),
    switchSpec14       ( 34),
    switchSpec15       ( 35),
    switchSpec16       ( 36),
}

```

```
switchSpec17      ( 37),
switchSpec18      ( 38),
switchSpec19      ( 39),
switchSpec20      ( 40),
switchSpec21      ( 41),
switchSpec22      ( 42),
switchSpec23      ( 43),
switchSpec24      ( 44),
switchSpec25      ( 45),
switchSpec26      ( 46),
switchSpec27      ( 47),
switchSpec28      ( 48),
switchSpec29      ( 49),
switchSpec30      ( 50),
switchSpec31      ( 51),
switchSpec32      ( 52),
switchSpec33      ( 53),
switchSpec34      ( 54),
switchSpec35      ( 55),
switchSpec36      ( 56),
switchSpec37      ( 57),
switchSpec38      ( 58),
switchSpec39      ( 59),
switchSpec40      ( 60),
switchSpec41      ( 61),
switchSpec42      ( 62),
switchSpec43      ( 63),
switchSpec44      ( 64),
switchSpec45      ( 65),
switchSpec46      ( 66),
switchSpec47      ( 67),
switchSpec48      ( 68),
switchSpec49      ( 69),
switchSpec50      ( 70),
switchSpec51      ( 71),
switchSpec52      ( 72),
switchSpec53      ( 73),
switchSpec54      ( 74),
switchSpec55      ( 75),
switchSpec56      ( 76),
switchSpec57      ( 77),
switchSpec58      ( 78),
switchSpec59      ( 79),
switchSpec60      ( 80),
switchSpec61      ( 81),
switchSpec62      ( 82),
switchSpec63      ( 83),
switchSpec64      ( 84),
switchSpec65      ( 85),
switchSpec66      ( 86),
switchSpec67      ( 87),
switchSpec68      ( 88),
switchSpec69      ( 89),
switchSpec70      ( 90),
switchSpec71      ( 91),
switchSpec72      ( 92),
switchSpec73      ( 93),
switchSpec74      ( 94),
switchSpec75      ( 95),
switchSpec76      ( 96),
```

```

switchSpec77      ( 97),
switchSpec78      ( 98),
switchSpec79      ( 99),
switchSpec80      (100),
switchSpec81      (101),
switchSpec82      (102),
switchSpec83      (103),
switchSpec84      (104),
switchSpec85      (105),
switchSpec86      (106),
switchSpec87      (107),
switchSpec88      (108),
switchSpec89      (109),
switchSpec90      (110),
switchSpec91      (111),
switchSpec92      (112),
switchSpec93      (113),
switchSpec94      (114),
switchSpec95      (115),
switchSpec96      (116),
switchSpec97      (117),
switchSpec98      (118),
switchSpec99      (119),
switchSpec100     (120) }
```

```

PresenceState ::= BIT STRING
{
  available          ( 0),
  away               ( 1),
  busy               ( 2),
  calling             ( 3),
  dnd                ( 4),
  meeting             ( 5),
  offline             ( 6),
  unknown             ( 7),
  vacation            ( 8),
  applicationSpec0   ( 9),
  applicationSpec1   (10),
  applicationSpec2   (11),
  applicationSpec3   (12),
  applicationSpec4   (13),
  applicationSpec5   (14),
  applicationSpec6   (15),
  applicationSpec7   (16),
  applicationSpec8   (17),
  applicationSpec9   (18),
  applicationSpec10  (19) }
```

END -- of CSTA-device-feature-types

9.7 Security

```
CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }

DEFINITIONS ::=

BEGIN

EXPORTS
CSTASecurityData,TimeInfo;

CSTASecurityData ::= SEQUENCE
{
  messageSequenceNumber      [ 0] IMPLICIT INTEGER      OPTIONAL,
  timestamp                  TimeInfo                  OPTIONAL,
  securityInfo               SecurityInfo            OPTIONAL }

SecurityInfo ::= CHOICE
{
  string          OCTET STRING,
  private         NULL } -- The actual encoding is added here,
                         -- replacing NULL with another valid ASN.1 type.

TimeInfo ::= GeneralizedTime

END -- of CSTA-security
```

9.8 Common extensions

```
CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }

DEFINITIONS ::=

BEGIN

EXPORTS
CSTACommonArguments, CSTAPrivateData;

IMPORTS
CSTASecurityData FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) };

CSTACommonArguments ::= [APPLICATION 30] IMPLICIT SEQUENCE
{
    security      [0] IMPLICIT      CSTASecurityData          OPTIONAL,
    privateData   [1] IMPLICIT      SEQUENCE OF CSTAPrivateData OPTIONAL
}

CSTAPrivateData ::= CHOICE
{
    string        OCTET STRING,
    private       NULL } -- The actual encoding is added here,
                         -- replacing NULL with another valid ASN.1 type.

END -- of CSTA-extension-types
```

9.9 Call control

```

CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }

DEFINITIONS ::=

BEGIN

EXPORTS
AutoOriginate, CallCharacteristics, CallLinkageData, CallLinkageDataList, CallQualifyingData,
ConsultOptions, NetworkCapability, LocationInfo, LocationInfoList,
ProgressIndicator, ServicesPermitted;

IMPORTS
TimeInfo FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CallControlServices, CallAssociatedServices, MediaAttachmentServices, RouteingServices,
VoiceUnitServices FROM CSTA-application-context-information-csta3
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) application-context-information( 200) };

AutoOriginate ::= ENUMERATED
{   prompt                      ( 0),
    doNotPrompt                  ( 1) }

CallCharacteristics ::= BIT STRING
{   acdCall                     ( 0),
    lowPriorityCall              (11),
    priorityCall                ( 1),
    highPriorityCall             (12),
    maintainanceCall            ( 2),
    directAgent                 ( 3),
    assistCall                  ( 4),
    voiceUnitCall                ( 5),
    privateCall                  ( 6),
    personalCall                 ( 7),
    sensitiveCall                ( 8),
    confidentialCall             ( 9),
    encryptedCall                (10) }

CallQualifyingData ::= OCTET STRING

ConsultOptions ::= ENUMERATED
{   unrestricted                ( 0),
    consultOnly                 ( 1),
    transferOnly                ( 2),
    conferenceOnly               ( 3) }

NetworkCapability ::= SEQUENCE
{   networkType ENUMERATED
  {   iSDNPublic                 ( 0),
      nonISDNPublic              ( 1),
      iSDNPrivate                 ( 2),
      nonISDNPrivate              ( 3),
      other                       ( 4) },
    eventsProvided BIT STRING
  {   bridged                     ( 0),
    }
}

```

```

allCleared          ( 1),
conferenced        ( 2),
connectionCleared ( 3),
delivered          ( 4),
digitsDialed      ( 5),
diverted          ( 6),
established       ( 7),
failed             ( 8),
held               ( 9),
networkCapabilitiesChange (10),
networkReached     (11),
offered            (12),
originated         (13),
queued              (14),
retrieved           (15),
serviceInitiated   (16),
transferred         (17) } OPTIONAL }

ProgressIndicator ::= SEQUENCE
{
    progressLocation ENUMERATED
    {
        user          ( 0),
        privateNetServingLocal ( 1),
        publicNetServingLocal ( 2),
        transitNetwork ( 3),
        publicNetServingRemote ( 4),
        privateNetServingRemote ( 5),
        localInterface ( 6),
        internationalNetwork ( 7),
        networkBeyondInterwk ( 8),
        other          ( 9) },
    progressDescription ENUMERATED
    {
        iSDNProgressDesc ( 0),
        qSIGProgressDesc ( 1),
        other            ( 2) } }

ServicesPermitted ::= SEQUENCE
{
    callControlServices          CallControlServices,
    callAssociatedServices       CallAssociatedServices,
    mediaAttachmentServices     MediaAttachmentServices,
    routeingServices            RouteingServices,
    voiceUnitServices           VoiceUnitServices }

CallLinkageDataList ::= SEQUENCE
{
    newCallLinkageData          CallLinkageData,
    oldCallLinkageData          CallLinkageData }

CallLinkageData ::= SEQUENCE
{
    globalCallData              GlobalCallData,
    threadData                  ThreadData OPTIONAL }

GlobalCallData ::= SEQUENCE
{
    globalCallSwitchingSubDomainName IA5String (SIZE(1..64)) OPTIONAL,
    globalCallLinkageID           GlobalCallLinkageID,
    callLinkageIDTimestamp       TimeInfo OPTIONAL }

GlobalCallLinkageID ::= CHOICE
{
    subDomainCallLinkageID      [0] IMPLICIT OCTET STRING (SIZE(1..8)),
    globallyUniqueCallLinkageID [1] IMPLICIT OCTET STRING (SIZE(1..16)) }

ThreadData ::= SEQUENCE

```

```

{
    threadSwitchingSubDomainName      IA5String (SIZE(1..64)) OPTIONAL,
    threadLinkageID                  ThreadLinkageID,
    threadIDTimeStamp                TimeInfo           OPTIONAL }

ThreadLinkageID ::= CHOICE
{
    subDomainThreadID              [0] IMPLICIT OCTET STRING (SIZE(1..8)),
    globallyUniqueThreadID         [1] IMPLICIT OCTET STRING (SIZE(1..16)) }

Method ::= ENUMERATED -- http://www.iana.org/assignments/method-tokens/method-tokens.xhtml
{
    a-GPS                         ( 0),   -- "Method" defines, what location tracking system has been used
    aOA                           ( 1),   -- to allocate the presented Location Data
    cell                          ( 2),
    derived                        ( 3),
    deviceAssistedAGps            ( 4),
    deviceBasedAGps               ( 5),
    dHCP                          ( 6),
    gPS                           ( 7),
    handsetAflt                  ( 8),
    handsetEflt                  ( 9),
    hybridAGps                   (10),
    ipdl                          (11),
    lldpMed                       (12),
    manual                        (13),
    mpl                           (14),
    nmr                           (15),
    otdoa                         (16),
    rfid                           (17),
    rssI                          (18),
    rssIrtt                      (19),
    rtt                           (20),
    ta                            (21),
    taNmr                        (22),
    triangulation                 (23),
    utdoa                         (24),
    wiremap                       (25),
    locMet80211                   (26) }

NenaCompanyIDType ::= IA5String          -- NenaCompanyIDs at http://www.nena.org/nena-company-id

TelUri247Type ::= IA5String           -- must be a RFC-3966 conform Tel URI

ProvidedBy ::= SEQUENCE             -- This DataType contains information about the organization
{                                 -- which provided the allocated location data
    dataproviderID   NenaCompanyIDType,
    telUri          TelUri247Type,        -- Standard Telephone URI,
    uRL             IA5String }          -- must be a emergency number, availaible 24/7

UsageRules ::= SEQUENCE
{
    retransmissionAllowed   BOOLEAN,
    retentionExpires        TimeInfo,       -- TimeInfo Already defined in CSTA-security
    rulesetReference        IA5String,     -- rulesetReference must be a URI
    noteWell                IA5String     OPTIONAL }

GpLocationInfo ::= SEQUENCE
{
    civicLocGml   SEQUENCE
    {
        gmlFormat OCTET STRING, -- must conform xsd schemas of GML 3.0
                                -- http://www.opengeospatial.org/standards/gml#downloads
        civicLoc SEQUENCE
        {
            country IA5String (SIZE(0..2)), -- must conform the ISO 3166 country code

```

```

a1      [ 0] IMPLICIT IA5String  OPTIONAL,
a2      [ 1] IMPLICIT IA5String  OPTIONAL,
a3      [ 2] IMPLICIT IA5String  OPTIONAL,
a4      [ 3] IMPLICIT IA5String  OPTIONAL,
a5      [ 4] IMPLICIT IA5String  OPTIONAL,
a6      [ 5] IMPLICIT IA5String  OPTIONAL,
prd     [ 6] IMPLICIT IA5String  OPTIONAL,
pod     [ 7] IMPLICIT IA5String  OPTIONAL,
sts     [ 8] IMPLICIT IA5String  OPTIONAL,
hno     [ 9] IMPLICIT IA5String  OPTIONAL,
hns     [10] IMPLICIT IA5String  OPTIONAL,
lmk     [11] IMPLICIT IA5String  OPTIONAL,
loc     [12] IMPLICIT IA5String  OPTIONAL,
flr     [13] IMPLICIT IA5String  OPTIONAL,
nam     [14] IMPLICIT IA5String  OPTIONAL,
pc      [15] IMPLICIT IA5String  OPTIONAL } OPTIONAL
}
}

GpLocationInfoList ::= SEQUENCE OF GpLocationInfo

--GeoPriv has been defined, regarding the ECMA-269 respective Definition of LocationInfo
GeoPriv ::= SEQUENCE
{
    gpLocationInfo      GpLocationInfoList,
    usageRules          [0] IMPLICIT UsageRules           OPTIONAL,
    method              [1] IMPLICIT Method             OPTIONAL,
    providedBy          [2] IMPLICIT ProvidedBy        OPTIONAL
}

LocationInfo ::= SEQUENCE OF GeoPriv

LocationInfoList ::= SEQUENCE OF LocationInfo

END -- of CSTA-call-control

```

9.10 Capability Exchange

```

CSTA-capability-exchange
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) capability-exchange( 131 ) }

DEFINITIONS ::=

BEGIN

EXPORTS
CapExchangeServList, SystemStatusServList, MonitoringServList, SnapshotServList,
CallControlServList, CallControlEvtsList, CallAssociatedServList,
CallAssociatedEvtsList, MediaServList, MediaEvtsList, RouteingServList, PhysDevEvtsList,
PhysDevServList, LogicalEvtsList, LogicalServList, DeviceMaintEvtsList, IOServicesServList,
DataCollectionServList, VoiceUnitServList, VoiceUnitEvtsList, CDRServList,
VendorSpecificServList, VendorSpecificEvtsList, DeviceIDFormat, SwDomainFeatures,
SwAppearanceAddressability, SwAppearanceTypes, IgnoreUnsupportedParameters, PauseTime,
TimeStampMode, MiscMonitorCaps, MaxLengthParameters, MaxLengthParametersContinued,
FilterThreshold, ServiceCrossRefID, DeviceCategory, GroupDeviceAttributes, NamedDeviceTypes,
ACDModels, AgentLogOnModels, AppearanceType, TransAndConfSetup, MediaServiceCapsList, LogDevServList,
LogDevEvtsList, BookmarkReached, GetLocationTrackingSessions, GetLocationTrackingCapabilities,
LocationSessionInfo, LocationServicesServList;

IMPORTS
MediaServiceType, MediaServiceInstanceID, ConnectionMode, ConnectionModeBMap
FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

ServiceCrossRefID ::= OCTET STRING

-- Capability Bitmaps

LogDevServList ::= SEQUENCE
{ callControlServList [0] IMPLICIT CallControlServList OPTIONAL,
  callAssociatedServList [1] IMPLICIT CallAssociatedServList OPTIONAL,
  logicalServList [2] IMPLICIT LogicalServList OPTIONAL,
  mediaServList [3] IMPLICIT MediaServList OPTIONAL,
  iOSServicesServList [4] IMPLICIT IOSServicesServList OPTIONAL,
  dataCollectionServList [5] IMPLICIT DataCollectionServList OPTIONAL,
  voiceUnitServList [6] IMPLICIT VoiceUnitServList OPTIONAL,
  locationServicesServList [7] IMPLICIT LocationServicesServList OPTIONAL }

LogDevEvtsList ::= SEQUENCE
{ callControlEvtsList [0] IMPLICIT CallControlEvtsList OPTIONAL,
  callAssociatedEvtsList [1] IMPLICIT CallAssociatedEvtsList OPTIONAL,
  logicalEvtsList [2] IMPLICIT LogicalEvtsList OPTIONAL,
  mediaEvtsList [3] IMPLICIT MediaEvtsList OPTIONAL,
  voiceUnitEvtsList [4] IMPLICIT VoiceUnitEvtsList OPTIONAL }

CapExchangeServList ::= SEQUENCE
{ getCSTAFeatures [5] IMPLICIT GetCSTAFeatures OPTIONAL,
  getLogicalDeviceInformation [0] IMPLICIT GetLogicalDeviceInformation OPTIONAL,
  getPhysicalDeviceInformation [1] IMPLICIT GetPhysicalDeviceInformation OPTIONAL,
  getSwitchingFunctionCaps [4] IMPLICIT GetSwitchingFunctionCapabilities OPTIONAL,
  getSwitchingFunctionDevices [2] IMPLICIT GetSwitchingFunctionDevices OPTIONAL,
  switchingFunctionDevices [3] IMPLICIT SwitchingFunctionDevices OPTIONAL }

```

```

GetCSTAFeatures ::= BIT STRING
{
    privateDataInReq                      ( 0),
    privateDataInAck                      ( 1) }

GetLogicalDeviceInformation ::= BIT STRING
{
    privateDataInReq                      ( 0),
    namedDeviceTypeInAck                 ( 1),
    shortFormDeviceIDInAck              ( 2),
    miscMonitorCapsInAck                ( 3),
    maxCallBacksInAck                  ( 4),
    maxAutoAnswerRingsInAck            ( 5),
    maxActiveCallsInAck                ( 6),
    maxHeldCallsInAck                 ( 7),
    maxFwdSettingsInAck               ( 8),
    maxDevicesInConfInAck              ( 9),
    transAndConfSetupParameter        (10),
    transAndConfSetupConsultationInAck (11),
    transAndConfSetupHoldMakeInAck     (12),
    transAndConfSetupAlternateInAck    (13),
    transAndConfSetupTwoCallsHoldInAck (14),
    transAndConfSetupTwoCallsConnectedInAck (15),
    mediaClassSupportInAck             (16),
    connectionRateListInAck           (17),
    delayToleranceListInAck          (18),
    numberOfWorkingChannelsInAck     (19),
    maxChannelBindInAck               (20),
    privateDataInAck                  (21) }

GetPhysicalDeviceInformation ::= BIT STRING
{
    privateDataInReq                      ( 0),
    namedDeviceTypesInAck                ( 1),
    otherLogicalDeviceListInAck          ( 2),
    deviceModelNameInAck                ( 3),
    maxDisplaysInAck                   ( 4),
    maxButtonsInAck                    ( 5),
    maxLampsInAck                     ( 6),
    maxRingPatternsInAck               ( 7),
    privateDataInAck                  ( 8) }

GetSwitchingFunctionDevices ::= BIT STRING
{
    requestedDeviceID                  ( 0),
    requestedDeviceCategoryACD         ( 1),
    requestedDeviceCategoryACDGroup    ( 2),
    requestedDeviceCategoryHuntGroup   ( 3),
    requestedDeviceCategoryPickGroup  ( 4),
    requestedDeviceCategoryUserGroup  (14),
    requestedDeviceCategoryOtherGroup ( 5),
    requestedDeviceCategoryNetwInterface ( 6),
    requestedDeviceCategoryPark       ( 7),
    requestedDeviceCategoryRouteingDevice ( 8),
    requestedDeviceCategoryStation    ( 9),
    requestedDeviceCategoryVoiceUnit  (10),
    requestedDeviceCategoryGenericIV  (15),
    requestedDeviceCategoryListenerIV (16),
    requestedDeviceCategoryVDTMFIV    (17),
    requestedDeviceCategoryPromptIV   (18),
    requestedDeviceCategoryPromptQueueIV (19),
    requestedDeviceCategoryMessageIV  (20),
    requestedDeviceCategoryConference (21),
    requestedDeviceCategoryOther      (11),
}

```

```

privateData (12),
privateDataInAck (13) }

GetSwitchingFunctionCapabilities ::= BIT STRING
{
    privateData ( 0),
    mediaClassSupport ( 1),
    numberOfChannels ( 2),
    maxChannelBind ( 3),
    miscMediaCallCharacteristics ( 4),
    connectionRateList ( 5),
    delayToleranceRateList ( 6),
    pauseTime ( 7),
    currentTime ( 8),
    transAndConfSetupParameter ( 9),
    transAndConfSetupConsultation (10),
    transAndConfSetupHoldMake (11),
    transAndConfSetupAlternate (12),
    transAndConfSetupTwoCalls (13),
    transAndConfSetupTwoCallsConnected (14),
    miscMonitor (15),
    correlatorDataSupported (16),
    dynamicFeatureSupported (17),
    callLinkageOptions (18),
    acdModels (19),
    agentLogOnModels (20),
    agentStateModels (21),
    privateDataVersionList (22),
    simpleThreshold (23),
    filterThreshold (24),
    maxDeviceHistoryEntries (25) }

SwitchingFunctionDevices ::= BIT STRING
{
    segmentID ( 0),
    deviceListDeviceCategory ( 1),
    deviceListNamedDeviceTypes ( 2),
    deviceListDeviceAttributes ( 3),
    deviceListDeviceModelName ( 4),
    deviceListNidGroup ( 6),
    privateData ( 5) }

SystemStatusServList ::= SEQUENCE
{
    changeSystemStatusFilter [ 0] IMPLICIT ChangeSystemStatusFilter OPTIONAL,
    systemRegister [ 1] IMPLICIT SystemRegister OPTIONAL,
    systemStatusRegisterAbort [ 2] IMPLICIT SystemStatusRegisterAbort OPTIONAL,
    systemStatusRegisterCancel [ 3] IMPLICIT SystemStatusRegisterCancel OPTIONAL,
    requestSystemStatus [ 4] IMPLICIT RequestSystemStatus OPTIONAL,
    systemStatus [ 5] IMPLICIT SystemStatus OPTIONAL,
    swFunctionCapsChanged [ 6] IMPLICIT SwFunctionCapsChanged OPTIONAL,
    swFunctionDevicesChanged [ 7] IMPLICIT SwFunctionDevicesChanged OPTIONAL,
    getRegistrations [ 8] IMPLICIT GetRegistrations OPTIONAL,
    registrationInfo [ 9] IMPLICIT RegistrationInfo OPTIONAL }

ChangeSystemStatusFilter ::= BIT STRING
{
    requestedStatusFilterInitializing ( 0), -- optional parameters
    requestedStatusFilterEnabled ( 1), -- optional parameters
    requestedStatusFilterNormal ( 2), -- optional parameters
    requestedStatusFilterMessageLost ( 3), -- optional parameters
    requestedStatusFilterDisabled ( 4), -- optional parameters
    requestedStatusFilterPartiallyDisabled ( 5), -- optional parameters
    requestedStatusFilterOverloadImminent ( 6), -- optional parameters
}

```

```

requestedStatusFilterOverloadReached          ( 7),    -- optional parameters
requestedStatusFilterOverloadRelieved         ( 8),    -- optional parameters
privateData                                ( 9),    -- optional parameters
privateDataInAck                            (10) } -- optional parameters

SystemRegister ::= BIT STRING
{
    requestTypesSystemStatus          ( 0),    -- optional parameters
    requestTypesRequestSystemStatus   ( 1),    -- optional parameters
    requestTypesSwitchingFunctionCapsChanged ( 2),    -- optional parameters
    requestTypesSwitchingFuncionDevicesChanged ( 3),    -- optional parameters
    statusFilterInitializing          ( 4),    -- optional parameters
    statusFilterEnabled              ( 5),    -- optional parameters
    statusFilterNormal               ( 6),    -- optional parameters
    statusFilterMessageLost          ( 7),    -- optional parameters
    statusFilterDisabled             ( 8),    -- optional parameters
    statusFilterPartiallyDisabled    ( 9),    -- optional parameters
    statusFilterOverloadImminent     (10),    -- optional parameters
    statusFilterOverloadReached      (11),    -- optional parameters
    statusFilterOverloadRelieved     (12),    -- optional parameters
    privateDataOctetString          (13),    -- optional parameters
    privateData                      (14),    -- optional parameters
    privateDataOctetStringInAck     (15),    -- optional parameters
    privateDataInAck                (16) } -- optional parameters

SystemStatusRegisterCancel ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck     ( 1) } -- optional parameters

SystemStatusRegisterAbort ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck     ( 1) } -- optional parameters

RequestSystemStatus ::= BIT STRING
{
    privateDataInReq          ( 0),    -- optional parameters
    systemStatusInitializing   ( 1),    -- optional parameters
    systemStatusEnabled        ( 2),    -- optional parameters
    systemStatusNormal         ( 3),    -- optional parameters
    systemStatusMessageLost    ( 4),    -- optional parameters
    systemStatusDisabled       ( 5),    -- optional parameters
    systemStatusPartiallyDisabled ( 6),    -- optional parameters
    systemStatusOverloadImminent ( 7),    -- optional parameters
    systemStatusOverloadReached ( 8),    -- optional parameters
    systemStatusOverloadRelieved ( 9),    -- optional parameters
    privateDataInAck          (10),    -- optional parameters
    switchingFunctionSupportsSending (11),    -- misc characteristics
    switchingFunctionSupportsReceiving (12) } -- misc characteristics

SystemStatus ::= BIT STRING
{
    systemStatusInitializing   ( 0),    -- optional parameters
    systemStatusEnabled        ( 1),    -- optional parameters
    systemStatusNormal         ( 2),    -- optional parameters
    systemStatusMessageLost    ( 3),    -- optional parameters
    systemStatusDisabled       ( 4),    -- optional parameters
    systemStatusPartiallyDisabled ( 5),    -- optional parameters
    systemStatusOverloadImminent ( 6),    -- optional parameters
    systemStatusOverloadReached ( 7),    -- optional parameters
    systemStatusOverloadRelieved ( 8),    -- optional parameters
    privateData                ( 9),    -- optional parameters
    privateDataInAck           (10),    -- optional parameters
    switchingFunctionSupportsSending (11),    -- misc characteristics

```

```
switchingFunctionSupportsReceiving          (12) } -- misc characteristics

SwFunctionCapsChanged ::= BIT STRING
{
    privateData                         ( 0), -- optional parameters
    privateDataInAck                     ( 1) } -- optional parameters

SwFunctionDevicesChanged ::= BIT STRING
{
    privateData                         ( 0), -- optional parameters
    privateDataInAck                   ( 1) } -- optional parameters

GetRegistrations ::= BIT STRING
{
    requestedReqTypes                  ( 0),
    privateData                        ( 1),
    privateDataInAck                  ( 2),
    segmentedResponseProvided        ( 3) }

RegistrationInfo ::= BIT STRING
{
    segmentID                          ( 0),
    privateData                        ( 1) }

MonitoringServList ::= SEQUENCE
{
    changeMonitorFilter      [ 0] IMPLICIT ChangeMonitorFilter   OPTIONAL,
    monitorStart              [ 1] IMPLICIT MonitorStart       OPTIONAL,
    monitorStop               [ 2] IMPLICIT MonitorStop       OPTIONAL,
    getMonitors               [ 3] IMPLICIT GetMonitors      OPTIONAL,
    monitorInfo                [ 4] IMPLICIT MonitorInfo      OPTIONAL }

ChangeMonitorFilter ::= BIT STRING
{
    privateData                         ( 0), -- optional parameters
    privateDataInAck                   ( 1) } -- optional parameters

MonitorStart ::= BIT STRING
{
    monitorObjectDevice                ( 0), -- optional parameters
    monitorObjectCall                 ( 1), -- optional parameters
    requestedMonitorFilter             ( 2), -- optional parameters
    monitorTypeCall                  ( 3), -- optional parameters
    monitorTypeDevice                 ( 4), -- optional parameters
    monitorMediaClassParameter        ( 5), -- optional parameters
    monitorMediaClassAudio            ( 6), -- optional parameters
    monitorMediaClassData             ( 7), -- optional parameters
    monitorMediaClassImage            ( 8), -- optional parameters
    monitorMediaClassVoice            ( 9), -- optional parameters
    monitorMediaClassChat             (15), -- optional parameters
    monitorMediaClassEmail            (16), -- optional parameters
    monitorMediaClassMessage          (17), -- optional parameters
    monitorMediaClassIM               (18), -- optional parameters
    monitorMediaClassSMS              (19), -- optional parameters
    monitorMediaClassMMS              (20), -- optional parameters
    monitorExistingCallsInAck         (10), -- optional parameters
    privateDataInAck                  (11), -- optional parameters
    callIDOnly                         (12), -- miscellaneous characteristics
    swDomainDefaultForMonitorTypeIsDevice (13), -- miscellaneous characteristics
    acceptsMonitorStartWhileOOS       (14) } -- miscellaneous characteristics

MonitorStop ::= BIT STRING
{
    privateData                         ( 0), -- optional parameters
    privateDataInAck                   ( 1), -- optional parameters
    switchingFunctionSupportsSending  ( 2), -- misc characteristics
    switchingFunctionSupportsReceiving ( 3) } -- misc characteristics
```

```

GetMonitors ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    privateDataInAck                          ( 1), -- optional parameters
    segmentedResponseProvided                ( 2) } -- optional parameters

MonitorInfo ::= BIT STRING
{
    segmentID                                ( 0), -- optional parameters
    privateData                               ( 1) } -- optional parameters

SnapshotServList ::= SEQUENCE
{
    snapshotCall                            [0] IMPLICIT SnapshotCall,
    snapshotDevice                          [1] IMPLICIT SnapshotDevice,
    snapshotCallData                      [2] IMPLICIT SnapshotCallData,
    snapshotDeviceData                    [3] IMPLICIT SnapshotDeviceData }

SnapshotCall ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    localConnectionStateInAck              ( 1), -- optional parameters
    mediaServiceInfoListInAck             ( 2), -- optional parameters
    mediaServiceVersionInAck              ( 3), -- optional parameters
    mediaServiceInstanceInAck            ( 4), -- optional parameters
    mediaStreamID                           ( 5), -- optional parameters
    connectionInformation                 ( 6), -- optional parameters
    mediaCallCharacteristicsInAck        ( 7), -- optional parameters
    callCharacteristicsInAck             ( 8), -- optional parameters
    callingDeviceInAck                   ( 9), -- optional parameters
    calledDeviceInAck                   (10), -- optional parameters
    subjectOfCallInAck                  (14), -- optional parameters
    messageInfoInAck                   (15), -- optional parameters
    languagePreferencesInAck           (16), -- optional parameters
    deviceHistoryInAck                  (17), -- optional parameters
    privateDataInAck                     (11), -- optional parameters
    callIDOnly                            (12), -- miscellaneous characteristics
    reportsWithSampsCallData          (13), -- optional parameters
    locationInfoList                    (18) } -- miscellaneous characteristics

SnapshotDevice ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    localCallStateCompoundCallState        ( 1), -- optional parameters
    localCallStateSimpleCallState         ( 2), -- optional parameters
    localCallStateUnknown                 ( 3), -- optional parameters
    mediaServiceInfoListInAck             ( 4), -- optional parameters
    mediaServiceVersionInAck              ( 5), -- optional parameters
    mediaServiceInstanceInAck            ( 6), -- optional parameters
    mediaStreamID                           ( 7), -- optional parameters
    connectionInformation                 ( 8), -- optional parameters
    mediaCallCharacteristicsInAck        ( 9), -- optional parameters
    privateDataInAck                     (10), -- optional parameters
    reportsWithSampsDeviceData         (11) } -- miscellaneous characteristics

SnapshotCallData ::= BIT STRING
{
    segmentID                                ( 0), -- optional parameters
    localConnectionState                   ( 1), -- optional parameters
    mediaServiceInformationList          ( 2), -- optional parameters
    mediaServiceVersion                  ( 3), -- optional parameters
    mediaServiceInstance                 ( 4), -- optional parameters
    mediaStreamID                           ( 5), -- optional parameters
    connectionInformation                 ( 6), -- optional parameters
    privateData                            ( 7), -- optional parameters
    locationInfoList                     ( 8) } -- optional parameters

```

```

SnapshotDeviceData ::= BIT STRING
{
    segmentID                                ( 0), -- optional parameters
    localCallStateCompoundCallState           ( 1), -- optional parameters
    localCallStateSimpleCallState             ( 2), -- optional parameters
    localCallStateUnknown                     ( 3), -- optional parameters
    mediaServiceInformationList              ( 4), -- optional parameters
    mediaServiceVersion                      ( 5), -- optional parameters
    mediaServiceInstance                      ( 6), -- optional parameters
    mediaStreamID                            ( 7), -- optional parameters
    connectionInformation                    ( 8), -- optional parameters
    mediaCallCharacteristics                ( 9), -- optional parameters
    endpointDeviceID                        (11), -- optional parameters
    privateData                               (10) } -- optional parameters

```

```

CallControlServList ::= SEQUENCE
{
    acceptCall          [ 0] IMPLICIT AcceptCall      OPTIONAL,
    alternateCall       [ 1] IMPLICIT AlternateCall   OPTIONAL,
    answerCall          [ 2] IMPLICIT AnswerCall     OPTIONAL,
    callBack            [ 3] IMPLICIT CallBack       OPTIONAL,
    callBackMessage    [ 4] IMPLICIT CallBackMessage OPTIONAL,
    campOnCall          [ 5] IMPLICIT CampOnCall    OPTIONAL,
    clearCall           [ 6] IMPLICIT ClearCall     OPTIONAL,
    clearConnection     [ 7] IMPLICIT ClearConnection OPTIONAL,
    conferenceCall      [ 8] IMPLICIT ConferenceCall OPTIONAL,
    consultationCall    [ 9] IMPLICIT ConsultationCall OPTIONAL,
    deflectCall          [10] IMPLICIT DeflectCall    OPTIONAL,
    dialDigits           [11] IMPLICIT DialDigits    OPTIONAL,
    directedPickupCall  [12] IMPLICIT DirectedPickupCall OPTIONAL,
    groupPickupCall     [13] IMPLICIT GroupPickupCall OPTIONAL,
    holdCall             [14] IMPLICIT HoldCall      OPTIONAL,
    intrudeCall          [15] IMPLICIT IntrudeCall    OPTIONAL,
    joinCall              [16] IMPLICIT JoinCall     OPTIONAL,
    makeCall              [17] IMPLICIT MakeCall     OPTIONAL,
    makeConnection        [25] IMPLICIT MakeConnection OPTIONAL,
    makePredictiveCall   [18] IMPLICIT MakePredictiveCall OPTIONAL,
    parkCall              [19] IMPLICIT ParkCall     OPTIONAL,
    reconnectCall         [20] IMPLICIT ReconnectCall  OPTIONAL,
    retrieveCall          [21] IMPLICIT RetrieveCall   OPTIONAL,
    sendMessage           [26] IMPLICIT SendMessage    OPTIONAL,
    singleStepConference  [22] IMPLICIT SingleStepConference OPTIONAL,
    singleStepTransfer    [23] IMPLICIT SingleStepTransfer OPTIONAL,
    transferCall          [24] IMPLICIT TransferCall   OPTIONAL }

```

```

AcceptCall ::= BIT STRING
{
    correlatorData                  ( 0), -- optional parameters
    userData                       ( 1), -- optional parameters
    privateData                     ( 2), -- optional parameters
    privateDataInAck                ( 3), -- optional parameters
    deviceIDOnly                   ( 4), -- misc characteristics
    ackModelMultiStep               ( 5) } -- misc characteristics

```

```

AlternateCall ::= BIT STRING
{
    alerting                      ( 0), -- initial states heldCall
    hold                          ( 1), -- initial states heldCall
    queued                        ( 2), -- initial states heldCall
    connectionReservation          ( 3), -- optional parameters
    consultOptionConsultOnly      ( 4), -- optional parameters
    consultOptionTransferOnly     ( 5), -- optional parameters
    consultOptionConferenceOnly   ( 6), -- optional parameters

```

```

consultOptionUnrestricted          ( 7),    -- optional parameters
privateData                        ( 8),    -- optional parameters
privateDataInAck                   ( 9),    -- optional parameters
deviceIDOnly                      (10),    -- misc characteristics
ackModelMultiStep                 (11),    -- misc characteristics
supportsOfferedModeOfAlerting    (12) } -- misc characteristics

AnswerCall ::= BIT STRING
{
    alerting                      ( 0),    -- initial states
    initiated                     ( 1),    -- initial states
    queued                         ( 2),    -- initial states
    correlatorData                ( 3),    -- optional parameters
    userData                       ( 4),    -- optional parameters
    privateData                    ( 5),    -- optional parameters
    privateDataInAck               ( 6),    -- optional parameters
    deviceIDOnly                   ( 7),    -- misc characteristics
    supportsOfferedModeOfAlerting ( 8),    -- misc characteristics
    ackModelMultiStep              ( 9) } -- misc characteristics

CallBack ::= BIT STRING
{
    alerting                      ( 0),    -- initial states
    null                           ( 1),    -- initial states
    failed                         ( 2),    -- initial states
    queued                         ( 3),    -- initial states
    callCharacteristics            ( 4),    -- optional parameters
    subjectOfCall                  (11),    -- optional parameters
    languagePreferences             (12),    -- optional parameters
    privateData                    ( 5),    -- optional parameters
    targetDeviceInAck              ( 6),    -- optional parameters
    privateDataInAck               ( 7),    -- optional parameters
    deviceIDOnly                   ( 8),    -- misc characteristics
    moreCallBacksNegAck            ( 9),    -- misc characteristics
    ackModelMultiStep              (10) } -- misc characteristics

CallBackMessage ::= BIT STRING
{
    alerting                      ( 0),    -- initial states
    null                           ( 1),    -- initial states
    failed                         ( 2),    -- initial states
    queued                         ( 3),    -- initial states
    privateData                    ( 4),    -- optional parameters
    targetDeviceInAck              ( 5),    -- optional parameters
    privateDataInAck               ( 6),    -- optional parameters
    deviceIDOnly                   ( 7),    -- misc characteristics
    moreCallBacksNegAck            ( 8),    -- misc characteristics
    ackModelMultiStep              ( 9) } -- misc characteristics

CampOnCall ::= BIT STRING
{
    privateData                    ( 0),    -- optional parameters
    privateDataInAck               ( 1),    -- optional parameters
    deviceIDOnly                   ( 2),    -- misc characteristics
    ackModelMultiStep              ( 3) } -- misc characteristics

ClearCall ::= BIT STRING
{
    alerting                      ( 0),    -- initial states
    connected                     ( 1),    -- initial states
    failed                         ( 2),    -- initial states
    queued                         ( 3),    -- initial states
    initiated                     ( 4),    -- initial states
    hold                           ( 5),    -- initial states
    userData                       ( 6),    -- optional parameters

```

```

privateData ( 7), -- optional parameters
privateDataInAck ( 8), -- optional parameters
deviceIDOnly ( 9), -- misc characteristics
callIDOnly (10), -- misc characteristics
ackModelMultiStep (11), -- misc characteristics
reason (12) } -- optional parameters

ClearConnection ::= BIT STRING
{
    alerting ( 0), -- initial states
    connected ( 1), -- initial states
    fail ( 2), -- initial states
    queued ( 3), -- initial states
    initiated ( 4), -- initial states
    hold ( 5), -- initial states
    correlatorData ( 6), -- optional parameters
    userData ( 7), -- optional parameters
    reason (12), -- optional parameters
    privateData ( 8), -- optional parameters
    privateDataInAck ( 9), -- optional parameters
    deviceIDOnly (10), -- misc characteristics
    ackModelMultiStep (11) } -- misc characteristics

ConferenceCall ::= BIT STRING
{
    activeCallConnected ( 0), -- initial states
    activeCallHold ( 1), -- initial states
    heldCallConnected ( 2), -- initial states
    heldCallHold ( 3), -- initial states
    privateData ( 4), -- optional parameters
    connectionParameterInAck ( 5), -- optional parameters
    endpointDeviceID ( 6), -- optional parameters
    resultingConnectionInfo ( 7), -- optional parameters
    conferenceCallOnfoInAck ( 8), -- optional parameters
    privateDataInAck ( 9), -- optional parameters
    protectedAgainstClearing (10), -- misc characteristics
    deviceIDOnly (11), -- misc characteristics
    ackModelMultiStep (12) } -- misc characteristics

ConsultationCall ::= BIT STRING
{
    connectionReservation ( 0), -- optional parameters
    accountCode ( 1), -- optional parameters
    authCode ( 2), -- optional parameters
    correlatorData ( 3), -- optional parameters
    userData ( 4), -- optional parameters
    callCharacteristics ( 5), -- optional parameters
    callCharacteristicsACDCALL ( 6), -- optional parameters
    callCharacteristicsLowPriorityCall (29), -- optional parameters
    callCharacteristicsPriorityCall ( 7), -- optional parameters
    callCharacteristicsHighPriorityCall (30), -- optional parameters
    callCharacteristicsMaintenanceCall ( 8), -- optional parameters
    callCharacteristicsDirectAgent ( 9), -- optional parameters
    callCharacteristicsAssistCall (10), -- optional parameters
    callCharacteristicsVoiceUnitCall (11), -- optional parameters
    callCharacteristicsPrivateCall (31), -- optional parameters
    callCharacteristicsPersonalCall (32), -- optional parameters
    callCharacteristicsSensitiveCall (33), -- optional parameters
    callCharacteristicsConfidentialCall (34), -- optional parameters
    callCharacteristicsEncryptedCall (35), -- optional parameters
    mediaCallCharacteristics (12), -- optional parameters
    callingConnectionInfo (13), -- optional parameters
    flowDirectionTransmit (14), -- optional parameters

```

```

flowDirectionReceive          (15),    -- optional parameters
flowDirectionTransmitAndReceive (16),    -- optional parameters
flowDirectionNone             (36),    -- optional parameters
numberOfChannels              (17),    -- optional parameters
mediaSessionInfo              (37),    -- optional parameters
consultOptionConsultOnly      (18),    -- optional parameters
consultOptionTransferOnly     (19),    -- optional parameters
consultOptionConferenceOnly   (20),    -- optional parameters
consultOptionUnrestricted     (21),    -- optional parameters
subjectOfCall                 (38),    -- optional parameters
languagePreferences           (39),    -- optional parameters
privateData                   (22),    -- optional parameters
initiatedCallInfoInAck        (23),    -- optional parameters
privateDataInAck              (24),    -- optional parameters
deviceIDOnly                  (25),    -- misc characteristics
multiStage                    (26),    -- misc characteristics
supportsAdjustmentOfMediaCharacteristics (27),    -- misc characteristics
ackModelMultiStep             (28) } -- misc characteristics

DeflectCall ::= BIT STRING
{
    alerting                  ( 0),    -- initial states
    connected                  ( 1),    -- initial states
    failed                     ( 2),    -- initial states
    hold                       ( 3),    -- initial states
    queued                     ( 4),    -- initial states
    correlatorData             ( 5),    -- optional parameters
    userData                   ( 6),    -- optional parameters
    subjectOfCall              (11),    -- optional parameters
    languagePreferences         (12),    -- optional parameters
    reason                      (13),    -- optional parameters
    privateData                ( 7),    -- optional parameters
    privateDataInAck            ( 8),    -- optional parameters
    deviceIDOnly                ( 9),    -- misc characteristics
    ackModelMultiStep           (10),    -- misc characteristics
    callCharacteristicsinRequest (14),    -- misc characteristics
    multipleDeviceIDsInNewDestination (15) } -- misc characteristics

DialDigits ::= BIT STRING
{
    correlatorData             ( 0),    -- optional parameters
    privateData                ( 1),    -- optional parameters
    privateDataInAck            ( 2),    -- optional parameters
    deviceIDOnly                ( 3),    -- misc characteristics
    ackModelMultiStep           ( 4) } -- misc characteristics

DirectedPickupCall ::= BIT STRING
{
    alerting                  ( 0),    -- initial states
    hold                      ( 1),    -- initial states
    queued                     ( 2),    -- initial states
    connected                  ( 3),    -- initial states
    correlatorData             ( 4),    -- optional parameters
    userData                   ( 5),    -- optional parameters
    privateData                ( 6),    -- optional parameters
    pickedCallInAck            ( 7),    -- optional parameters
    pickedCallInfoInAck        ( 8),    -- optional parameters
    privateDataInAck            ( 9),    -- optional parameters
    deviceIDOnly                (10),    -- misc characteristics
    supportsOfferedModeOfAlerting (11),    -- misc characteristics
    supportsPrompting           (12),    -- misc characteristics
    promptingMode               (13),    -- misc characteristics
    ackModelMultiStep           (14) } -- misc characteristics

```

```

GroupPickupCall ::= BIT STRING
{
    alerting                                ( 0), -- initial states
    connected                               ( 1), -- initial states
    hold                                    ( 2), -- initial states
    queued                                   ( 3), -- initial states
    pickGroup                                ( 4), -- optional parameters
    correlatorData                           ( 5), -- optional parameters
    userData                                 ( 6), -- optional parameters
    privateData                              ( 7), -- optional parameters
    pickedCallInAck                         ( 8), -- optional parameters
    pickedCallInfoInAck                    ( 9), -- optional parameters
    privateDataInAck                        (10), -- optional parameters
    supportsPrompting                      (11), -- misc characteristics
    promptingMode                           (12), -- misc characteristics
    supportsOfferedModeOfAlerting        (13), -- misc characteristics
    ackModelMultiStep                       (14) } -- misc characteristics

HoldCall ::= BIT STRING
{
    connectionReservation                  ( 0), -- optional parameters
    privateData                           ( 1), -- optional parameters
    privateDataInAck                     ( 2), -- optional parameters
    deviceIDOnly                          ( 3), -- misc characteristics
    ackModelMultiStep                     ( 4) } -- misc characteristics

IntrudeCall ::= BIT STRING
{
    participationTypeSilent             ( 0), -- optional parameters
    participationTypeActive            ( 1), -- optional parameters
    userData                             ( 2), -- optional parameters
    privateData                          ( 3), -- optional parameters
    conferencedCallInfoInAck          ( 4), -- optional parameters
    privateDataInAck                   ( 5), -- optional parameters
    deviceIDOnly                        ( 6), -- misc characteristics
    supportsConference                 ( 7), -- misc characteristics
    supportsAlternate                  ( 8), -- misc characteristics
    ackModelMultiStep                   ( 9) } -- misc characteristics

JoinCall ::= BIT STRING
{
    autoOriginatePrompt                ( 0), -- optional parameters
    autoOriginateDoNotPrompt           ( 1), -- optional parameters
    participationTypeSilent           ( 2), -- optional parameters
    participationTypeActive          ( 3), -- optional parameters
    accountCode                         ( 4), -- optional parameters
    authCode                            ( 5), -- optional parameters
    correlatorData                     ( 6), -- optional parameters
    userData                            ( 7), -- optional parameters
    conferencedCallInAck              ( 8), -- optional parameters
    conferencedCallInfoInAck          ( 9), -- optional parameters
    privateDataInAck                  (10), -- optional parameters
    deviceIDOnly                       (11), -- misc characteristics
    supportsPrompting                 (12), -- misc characteristics
    promptingMode                      (13), -- misc characteristics
    ackModelMultiStep                  (14) } -- misc characteristics

MakeCall ::= BIT STRING
{
    initiated                            ( 0), -- initials states
    null                                 ( 1), -- initials states
    accountCode                          ( 2), -- optional parameters
    authCode                            ( 3), -- optional parameters
    autoOriginatePrompt                ( 4), -- optional parameters

```

```

autoOriginateDoNotPrompt          ( 5),    -- optional parameters
correlatorData                   ( 6),    -- optional parameters
userData                         ( 7),    -- optional parameters
callCharacteristics              ( 8),    -- optional parameters
callCharacteristicsACDCALL       ( 9),    -- optional parameters
callCharacteristicsLowPriorityCall(26),    -- optional parameters
callCharacteristicsPriorityCall  (10),    -- optional parameters
callCharacteristicsHighPriorityCall(27),   -- optional parameters
callCharacteristicsMaintenanceCall(11),   -- optional parameters
callCharacteristicsDirectAgent   (12),    -- optional parameters
callCharacteristicsAssistCall    (13),    -- optional parameters
callCharacteristicsVoiceUnitCall (14),    -- optional parameters
callCharacteristicsPrivateCall   (28),    -- optional parameters
callCharacteristicsPersonalCall  (29),    -- optional parameters
callCharacteristicsSensitiveCall (30),    -- optional parameters
callCharacteristicsConfidentialCall(31),  -- optional parameters
callCharacteristicsEncryptedCall (32),    -- optional parameters
mediaCallCharacteristics         (15),    -- optional parameters
callingConnectionInfo            (16),    -- optional parameters
subjectOfCall                    (33),    -- optional parameters
languagePreferences              (34),    -- optional parameters
privateData                      (17),    -- optional parameters
initiatedCallInfoInAck          (18),    -- optional parameters
privateDataInAck                 (19),    -- optional parameters
multiStage                       (20),    -- misc characteristics
supportsPrompting               (21),    -- misc characteristics
promptingMode                   (22),    -- misc characteristics
offHook                          (23),    -- misc characteristics
mediaCharacteristicsAdjustable  (24),    -- misc characteristics
ackModelMultiStep                (25),    -- misc characteristics
reason                           (35) } -- optional parameters

```

```

MakeConnection ::= BIT STRING
{
    null                               ( 0),    -- initials states
    accountCode                        ( 1),    -- optional parameters
    authCode                            ( 2),    -- optional parameters
    autoOriginatePrompt                ( 3),    -- optional parameters
    autoOriginateDoNotPrompt           ( 4),    -- optional parameters
    correlatorData                     ( 5),    -- optional parameters
    callCharacteristics                ( 6),    -- optional parameters
    callCharacteristicsACDCALL        ( 7),    -- optional parameters
    callCharacteristicsLowPriorityCall( 8),    -- optional parameters
    callCharacteristicsPriorityCall   ( 9),    -- optional parameters
    callCharacteristicsHighPriorityCall(10),   -- optional parameters
    callCharacteristicsMaintenanceCall(11),  -- optional parameters
    callCharacteristicsDirectAgent   (12),    -- optional parameters
    callCharacteristicsAssistCall    (13),    -- optional parameters
    callCharacteristicsVoiceUnitCall (14),    -- optional parameters
    callCharacteristicsPrivateCall   (15),    -- optional parameters
    callCharacteristicsPersonalCall  (16),    -- optional parameters
    callCharacteristicsSensitiveCall (17),    -- optional parameters
    callCharacteristicsConfidentialCall(18),  -- optional parameters
    callCharacteristicsEncryptedCall (19),    -- optional parameters
    mediaCallCharacteristics         (20),    -- optional parameters
    connectionInfo                     (21),    -- optional parameters
    subjectOfCall                      (22),    -- optional parameters
    languagePreferences                (23),    -- optional parameters
    reason                            (24),    -- optional parameters
    maxDevices                         (25),    -- optional parameters
    startTime                          (26),    -- optional parameters
}

```

```

duration (27), -- optional parameters
privateData (28), -- optional parameters
mediaCharacteristicsInAck (29), -- optional parameters
initiatedCallInfoInAck (30), -- optional parameters
privateDataInAck (31), -- optional parameters
supportsPrompting (32), -- optional parameters
promptingMode (33), -- optional parameters
mediaCharacteristicsAdjusted (34), -- optional parameters
ackModelMultistep (35) } -- optional parameters

MakePredictiveCall ::= BIT STRING
{
    signallingDetection ( 0), -- optional parameters
    signallingConditionCallDelivered ( 1), -- optional parameters
    signallingConditionCallEstablished ( 2), -- optional parameters
    signallingConditionActionDestinationDetection ( 3), -- optional parameters
    signallingConditionActionRemainConnected ( 4), -- optional parameters
    destinationDetection ( 5), -- optional parameters
    destinationConditionHumanVoice ( 6), -- optional parameters
    destinationConditionAnsweringMachine ( 7), -- optional parameters
    destinationConditionFax ( 8), -- optional parameters
    destinationActionClearConnection ( 9), -- optional parameters
    destinationActionRemainConnected (10), -- optional parameters
    defaultActionClearConnection (11), -- optional parameters
    defaultActionRemainConnected (12), -- optional parameters
    accountCode (13), -- optional parameters
    authCode (14), -- optional parameters
    autoOriginatePrompt (15), -- optional parameters
    autoOriginateDoNotPrompt (16), -- optional parameters
    alertTime (17), -- optional parameters
    correlatorData (18), -- optional parameters
    callCharacteristics (19), -- optional parameters
    callCharacteristicsACDCALL (20), -- optional parameters
    callCharacteristicsLowPriorityCall (35), -- optional parameters
    callCharacteristicsPriorityCall (21), -- optional parameters
    callCharacteristicsHighPriorityCall (36), -- optional parameters
    callCharacteristicsMaintenanceCall (22), -- optional parameters
    callCharacteristicsDirectAgent (23), -- optional parameters
    callCharacteristicsAssistCall (24), -- optional parameters
    callCharacteristicsVoiceUnitCall (25), -- optional parameters
    callCharacteristicsPrivateCall (37), -- optional parameters
    callCharacteristicsPersonalCall (38), -- optional parameters
    callCharacteristicsSensitiveCall (39), -- optional parameters
    callCharacteristicsConfidentialCall (40), -- optional parameters
    callCharacteristicsEncryptedCall (41), -- optional parameters
    subjectOfCall (42), -- optional parameters
    languagePreferences (43), -- optional parameters
    userData (26), -- optional parameters
    privateData (27), -- optional parameters
    initiatedCallInfoInAck (28), -- optional parameters
    privateDataInAck (29), -- optional parameters
    deviceIDOnly (30), -- misc characteristics
    supportsPrompting (31), -- misc characteristics
    promptingMode (32), -- misc characteristics
    reservesCallingDevice (33), -- misc characteristics
    ackModelMultiStep (34) } -- misc characteristics

ParkCall ::= BIT STRING
{
    hold ( 0), -- initial states
    connected ( 1), -- initial states
    correlatorData ( 2), -- optional parameters

```

```

subjectOfCall                                ( 8),    -- optional parameters
languagePreferences                           ( 9),    -- optional parameters
privateData                                  ( 3),    -- optional parameters
parkedToInAck                                ( 4),    -- optional parameters
privateDataInAck                             ( 5),    -- optional parameters
deviceIDOnly                                 ( 6),    -- misc characteristics
ackModelMultiStep                           ( 7) } -- misc characteristics

ReconnectCall ::= BIT STRING
{
    alerting                               ( 0),    -- initial states
    connected                              ( 1),    -- initial states
    fail                                    ( 2),    -- initial states
    initiated                               ( 3),    -- initial states
    queued                                   ( 4),    -- initial states
    privateData                            ( 5),    -- optional parameters
    privateDataInAck                      ( 6),    -- optional parameters
    deviceIDOnly                           ( 7),    -- misc characteristics
    ackModelMultiStep                     ( 8) } -- misc characteristics

RetrieveCall ::= BIT STRING
{
    privateData                            ( 0),    -- optional parameters
    privateDataInAck                      ( 1),    -- optional parameters
    deviceIDOnly                           ( 2),    -- misc characteristics
    ackModelMultiStep                     ( 3) } -- misc characteristics

SendMessage ::= BIT STRING
{
    accountCode                            ( 0),    -- optional parameters
    authCode                                ( 1),    -- optional parameters
    correlatorData                          ( 2),    -- optional parameters
    userData                                ( 3),    -- optional parameters
    callCharacteristics                    ( 4),    -- optional parameters
    callCharacteristicsACDCall           ( 5),    -- optional parameters
    callCharacteristicsLowPriorityCall   ( 6),    -- optional parameters
    callCharacteristicsPriorityCall     ( 7),    -- optional parameters
    callCharacteristicsHighPriorityCall ( 8),    -- optional parameters
    callCharacteristicsMaintenanceCall ( 9),    -- optional parameters
    callCharacteristicsDirectAgent      (10),   -- optional parameters
    callCharacteristicsAssistCall       (11),   -- optional parameters
    callCharacteristicsVoiceUnitCall   (12),   -- optional parameters
    callCharacteristicsPrivateCall     (13),   -- optional parameters
    callCharacteristicsPersonalCall    (14),   -- optional parameters
    callCharacteristicsSensitiveCall   (15),   -- optional parameters
    callCharacteristicsConfidentialCall (16),   -- optional parameters
    callCharacteristicsEncryptedCall   (17),   -- optional parameters
    mediaCallCharacteristics            (18),   -- optional parameters
    subjectOfCall                           (19),   -- optional parameters
    languagePreferences                   (20),   -- optional parameters
    privateData                            (21),   -- optional parameters
    privateDataInAck                      (22) } -- optional parameters

SingleStepConference ::= BIT STRING
{
    participationTypeActive              ( 0),    -- optional parameters
    participationTypeSilent             ( 1),    -- optional parameters
    accountCode                            ( 2),    -- optional parameters
    authCode                                ( 3),    -- optional parameters
    correlatorData                          ( 4),    -- optional parameters
    userData                                ( 5),    -- optional parameters
    privateData                            ( 6),    -- optional parameters
    conferencedCallInfoInAck            ( 7),    -- optional parameters
    privateDataInAck                      ( 8),    -- optional parameters

```

```

deviceIDOnly          ( 9),    -- misc characteristics
ackModelMultiStep     (10) }    -- misc characteristics

SingleStepTransfer ::= BIT STRING
{
  accountCode          ( 0),    -- optional parameters
  authCode              ( 1),    -- optional parameters
  correlatorData        ( 2),    -- optional parameters
  userData              ( 3),    -- optional parameters
  subjectOfCall         (13),   -- optional parameters
  languagePreferences   (14),   -- optional parameters
  reason                (15),   -- optional parameters
  privateData           ( 4),    -- optional parameters
  connectionParameterInAck ( 5),   -- optional parameters
  endpointDeviceID      ( 6),    -- optional parameters
  resultConnectionInformation ( 7),   -- optional parameters
  transferredCollInfoInAck ( 8),   -- optional parameters
  privateDataInAck       ( 9),    -- optional parameters
  deviceIDOnly           (10),   -- misc characteristics
  multipleDevices         (11),   -- misc characteristics
  ackModelMultiStep       (12),   -- misc characteristics
  callCharacteristicsinRequest (16) } -- misc characteristics

TransferCall ::= BIT STRING
{
  activeCallConnected   ( 0),    -- initial states
  activeCallHold          ( 1),    -- initial states
  heldCallConnected        ( 2),    -- initial states
  heldCallHold             ( 3),    -- initial states
  privateData              ( 4),    -- optional parameters
  connectionsParameterInAck ( 5),   -- optional parameters
  endpointDeviceID         ( 6),    -- optional parameters
  resultingConnectionInformation ( 7),   -- optional parameters
  transferredCallInfoInAck ( 8),   -- optional parameters
  privateDataInAck          ( 9),    -- optional parameters
  deviceIDOnly              (10),   -- misc characteristics
  multipleDevices            (11),   -- misc characteristics
  ackModelMultiStep          (12) } -- misc characteristics

CallControlEvtsList ::= SEQUENCE
{
  bridged                 [ 0] IMPLICIT  Bridged           OPTIONAL,
  callCleared               [ 1] IMPLICIT  CallCleared        OPTIONAL,
  conferenced                [ 2] IMPLICIT  Conferenced        OPTIONAL,
  connectionCleared          [ 3] IMPLICIT  ConnectionCleared  OPTIONAL,
  delivered                  [ 4] IMPLICIT  Delivered         OPTIONAL,
  digitsDialed                [ 5] IMPLICIT  DigitsDialed      OPTIONAL,
  diverted                   [ 6] IMPLICIT  Diverted          OPTIONAL,
  established                  [ 7] IMPLICIT  Established        OPTIONAL,
  failed                      [ 8] IMPLICIT  Failed            OPTIONAL,
  held                        [ 9] IMPLICIT  Held              OPTIONAL,
  netwCapsChanged             [10] IMPLICIT  NetwCapsChanged    OPTIONAL,
  netwReached                  [11] IMPLICIT  NetwReached        OPTIONAL,
  offered                      [12] IMPLICIT  Offered           OPTIONAL,
  originated                  [13] IMPLICIT  Originated         OPTIONAL,
  queued                        [14] IMPLICIT  Queued            OPTIONAL,
  retrieved                    [15] IMPLICIT  Retrieved          OPTIONAL,
  serviceInitiated             [16] IMPLICIT  ServiceInitiated   OPTIONAL,
  transferred                  [17] IMPLICIT  Transferred        OPTIONAL }

Bridged ::= BIT STRING
{
  correlatorData             ( 0),    -- optional parameters
  userData                     ( 1),    -- optional parameters

```

```

servicesPermitted                                ( 2),    -- optional parameters
mediaCallCharacteristics                         ( 3),    -- optional parameters
callCharacteristics                            ( 4),    -- optional parameters
bridgedConnectionInfo                         ( 5),    -- optional parameters
languagePreferences                           ( 8),    -- optional parameters
callLinkageData                                 ( 7),    -- optional parameters
privateData                                     ( 6),    -- optional parameters
locationinfoList                               ( 9) } -- optional parameters

CallCleared ::= BIT STRING
{
    correlatorData                                ( 0),    -- optional parameters
    userData                                      ( 1),    -- optional parameters
    mediaCallCharacteristics                         ( 2),    -- optional parameters
    callCharacteristics                            ( 3),    -- optional parameters
    callLinkageData                                ( 6),    -- optional parameters
    privateData                                    ( 4),    -- optional parameters
    callIDOnly                                     ( 5) } -- miscellaneous characteristics

Conferenced ::= BIT STRING
{
    confereceConnectionsEndpointDeviceID          ( 0),    -- optional parameters
    confereceConnectionsresultingConnectionInfo   ( 1),    -- optional parameters
    userData                                       ( 2),    -- optional parameters
    servicesPermitted                             ( 3),    -- optional parameters
    mediaCallCharacteristics                         ( 4),    -- optional parameters
    callCharacteristics                            ( 5),    -- optional parameters
    bridgedConnectionInfo                         ( 6),    -- optional parameters
    lannguagePreferences                          ( 8),    -- optional parameters
    deviceHistory                                  ( 9),    -- optional parameters
    privateData                                    ( 7),    -- optional parameters
    locationInfoList                             (10) } -- optional parameters

ConnectionCleared ::= BIT STRING
{
    correlatorData                                ( 0),    -- optional parameters
    userData                                      ( 1),    -- optional parameters
    chargingInfo                                   ( 2),    -- optional parameters
    numberUnitsNumberOfChargingUnits              ( 3),    -- optional parameters
    numberUnitsTypeOfUnits                        ( 4),    -- optional parameters
    numberUnitsNumberOfCurrencyUnits             ( 5),    -- optional parameters
    typeOfChargingInfoSubTotal                  ( 6),    -- optional parameters
    typeOfChargingInfoTotal                      ( 7),    -- optional parameters
    chargingMultiplierAThousandth                ( 8),    -- optional parameters
    chargingMultiplierAHundredth                 ( 9),    -- optional parameters
    chargingMultiplierATenth                     (10),    -- optional parameters
    chargingMultiplierOne                        (11),    -- optional parameters
    chargingMultiplierTen                       (12),    -- optional parameters
    chargingMultiplierHundred                   (13),    -- optional parameters
    chargingMultiplierThousand                 (14),    -- optional parameters
    servicesPermitted                            (15),    -- optional parameters
    mediaCallCharacteristics                      (16),    -- optional parameters
    callCharacteristics                           (17),    -- optional parameters
    droppedConnectionInfo                        (18),    -- optional parameters
    callLinkageData                                (20),    -- optional parameters
    languagePreferences                           (21),    -- optional parameters
    deviceHistory                                 (22),    -- optional parameters
    privateData                                    (23) } -- optional parameters

Delivered ::= BIT STRING
{
    originatingNIDConnection                    ( 0),    -- optional parameters
    userData                                     ( 1),    -- optional parameters

```

```

servicesPermitted          ( 2),    -- optional parameters
netwCallingDevice          ( 3),    -- optional parameters
netwCalledDevice           ( 4),    -- optional parameters
mediaCallCharacteristics   ( 5),    -- optional parameters
callCharacteristics        ( 6),    -- optional parameters
connectionInfo             ( 7),    -- optional parameters
subjectOfCall              ( 9),    -- optional parameters
messageInfo                (10),   -- optional parameters
languagePreferences         (11),   -- optional parameters
deviceHistory              (12),   -- optional parameters
privateData                ( 8),    -- optional parameters
locationInfoList           (13) }  -- optional parameters

DigitsDialed ::= BIT STRING
{
    servicesPermitted          ( 0),    -- optional parameters
    netwCallingDevice          ( 1),    -- optional parameters
    netwCalledDevice           ( 2),    -- optional parameters
    diallingConnectionInfo    ( 3),    -- optional parameters
    callCharacteristics        ( 4),    -- optional parameters
    languagePreferences         ( 6),    -- optional parameters
    privateData                ( 5),    -- optional parameters
    locationInfoList           ( 7) }  -- optional parameters

Diverted ::= BIT STRING
{
    callingDevice              ( 0),    -- optional parameters
    calledDevice               ( 1),    -- optional parameters
    userData                  ( 2),    -- optional parameters
    servicesPermitted          ( 3),    -- optional parameters
    mediaCallCharacteristics   ( 4),    -- optional parameters
    callCharacteristics        ( 5),    -- optional parameters
    connectionInfo             ( 6),    -- optional parameters
    netwCallingDevice          ( 7),    -- optional parameters
    netwCalledDevice           ( 8),    -- optional parameters
    subjectOfCall              (11),   -- optional parameters
    messageInfo                (12),   -- optional parameters
    languagePreferences         (13),   -- optional parameters
    deviceHistory              (14),   -- optional parameters
    privateData                ( 9),    -- optional parameters
    sendsDivertedToAll         (10),   -- optional parameters
    locationInfoList           (15) }  -- optional parameters

Established ::= BIT STRING
{
    originatingNIDConnection  ( 0),    -- optional parameters
    userData                  ( 1),    -- optional parameters
    servicesPermitted          ( 2),    -- optional parameters
    netwCallingDevice          ( 3),    -- optional parameters
    netwCalledDevice           ( 4),    -- optional parameters
    mediaCallCharacteristics   ( 5),    -- optional parameters
    callCharacteristics        ( 6),    -- optional parameters
    establishedConnectionInfo  ( 7),    -- optional parameters
    subjectOfCall              ( 9),    -- optional parameters
    messageInfo                (10),   -- optional parameters
    languagePreferences         (11),   -- optional parameters
    deviceHistory              (12),   -- optional parameters
    privateData                ( 8),    -- optional parameters
    locationInfoList           (13) }  -- optional parameters

Failed ::= BIT STRING
{
    originatingNIDConnection  ( 0),    -- optional parameters
    userData                  ( 1),    -- optional parameters

```

```

servicesPermitted                                ( 2),    -- optional parameters
netwCallingDevice                               ( 3),    -- optional parameters
netwCalledDevice                               ( 4),    -- optional parameters
mediaCallCharacteristics                      ( 5),    -- optional parameters
callCharacteristics                            ( 6),    -- optional parameters
failedConnectionInfo                         ( 7),    -- optional parameters
subjectOfCall                                 (10),    -- optional parameters
messageInfo                                   (11),    -- optional parameters
languagePreferences                          (12),    -- optional parameters
deviceHistory                                  (13),    -- optional parameters
privateData                                    ( 8),    -- optional parameters
callIDOnly                                     ( 9),    -- miscellaneous characteristics
locationInfoList                             (14) } -- optional parameters

Held ::= BIT STRING
{
    correlatorData                                ( 0),    -- optional parameters
    servicesPermitted                            ( 1),    -- optional parameters
    mediaCallCharacteristics                    ( 2),    -- optional parameters
    callCharacteristics                          ( 3),    -- optional parameters
    heldConnectionInfo                         ( 4),    -- optional parameters
    callLinkageData                             ( 6),    -- optional parameters
    languagePreferences                        ( 7),    -- optional parameters
    privateData                                 ( 5),    -- optional parameters
    locationInfoList                           ( 8) } -- optional parameters

NetwCapsChanged ::= BIT STRING
{
    progressLocationUser                         ( 0),    -- optional parameters
    progressLocationPrivateServLocal           ( 1),    -- optional parameters
    progressLocationPublicServLocal            ( 2),    -- optional parameters
    progressLocationTransit                     ( 3),    -- optional parameters
    progressLocationPublicServRemote          ( 4),    -- optional parameters
    progressLocationPrivateServRemote        ( 5),    -- optional parameters
    progressLocationLocal                       ( 6),    -- optional parameters
    progressLocationInternational              ( 7),    -- optional parameters
    progressLocationNetwBeyondInterworking    ( 8),    -- optional parameters
    progressLocationOther                      ( 9),    -- optional parameters
    progressDescriptionISDN                  (10),    -- optional parameters
    progressDescriptionQSIG                   (11),    -- optional parameters
    progressDescriptionOther                 (12),    -- optional parameters
    userData                                    (13),    -- optional parameters
    typeOfNetworkISDNPublic                (14),    -- optional parameters
    typeOfNetworkNonISDNPublic              (15),    -- optional parameters
    typeOfNetworkISDNPrivate                (16),    -- optional parameters
    typeOfNetworkNonISDNPrivate             (17),    -- optional parameters
    typeOfNetworkOther                      (18),    -- optional parameters
    eventsProvidedParameter                (19),    -- optional parameters
    eventsProvidedBridged                  (20),    -- optional parameters
    eventsProvidedCallCleared              (21),    -- optional parameters
    eventsProvidedConferenced              (22),    -- optional parameters
    eventsProvidedConnectionCleared        (23),    -- optional parameters
    eventsProvidedDelivered                (24),    -- optional parameters
    eventsProvidedDigitsDialed             (25),    -- optional parameters
    eventsProvidedDiverted                 (26),    -- optional parameters
    eventsProvidedEstablished              (27),    -- optional parameters
    eventsProvidedFailed                  (28),    -- optional parameters
    eventsProvidedHeld                   (29),    -- optional parameters
    eventsProvidedNetwCapsChanged         (30),    -- optional parameters
    eventsProvidedNetwReached              (31),    -- optional parameters
    eventsProvidedOffered                 (32),    -- optional parameters
    eventsProvidedOriginated             (33),    -- optional parameters

```

```

eventsProvidedQueued          (34), -- optional parameters
eventsProvidedRetrieved       (35), -- optional parameters
eventsProvidedServiceInitiated (36), -- optional parameters
eventsProvidedTransferred     (37), -- optional parameters
servicesPermitted              (38), -- optional parameters
mediaCallCharacteristics      (39), -- optional parameters
callCharacteristics            (40), -- optional parameters
outboundConnectionInfo         (41), -- optional parameters
languagePreferences             (43), -- optional parameters
privateData                     (42), -- optional parameters
locationInfoList                (44) } -- optional parameters

NetwReached ::= BIT STRING
{
    originatingNIDConnection   ( 0), -- optional parameters
    userData                     ( 1), -- optional parameters
    typeOfNetworkISDNPublic     ( 2), -- optional parameters
    typeOfNetworkNonISDNPublic  ( 3), -- optional parameters
    typeOfNetworkISDNPrivate    ( 4), -- optional parameters
    typeOfNetworkNonISDNPrivate ( 5), -- optional parameters
    typeOfNetworkOther           ( 6), -- optional parameters
    eventsProvidedParameter      ( 7), -- optional parameters
    eventsProvidedBridged        ( 8), -- optional parameters
    eventsProvidedCallCleared    ( 9), -- optional parameters
    eventsProvidedConferenced    (10), -- optional parameters
    eventsProvidedConnectionCleared (11), -- optional parameters
    eventsProvidedDelivered      (12), -- optional parameters
    eventsProvidedDigitsDialed   (13), -- optional parameters
    eventsProvidedDiverted       (14), -- optional parameters
    eventsProvidedEstablished    (15), -- optional parameters
    eventsProvidedFailed          (16), -- optional parameters
    eventsProvidedHeld            (17), -- optional parameters
    eventsProvidedNetwCapsChanged (18), -- optional parameters
    eventsProvidedNetwReached    (19), -- optional parameters
    eventsProvidedOffered         (20), -- optional parameters
    eventsProvidedOriginated     (21), -- optional parameters
    eventsProvidedQueued          (22), -- optional parameters
    eventsProvidedRetrieved       (23), -- optional parameters
    eventsProvidedServiceInitiated (24), -- optional parameters
    eventsProvidedTransferred     (25), -- optional parameters
    servicesPermitted              (26), -- optional parameters
    mediaCallCharacteristics      (27), -- optional parameters
    callCharacteristics            (28), -- optional parameters
    outboundConnectionInfo         (29), -- optional parameters
    netwCallingDevice              (30), -- optional parameters
    netwCalledDevice               (31), -- optional parameters
    languagePreferences             (33), -- optional parameters
    deviceHistory                  (34), -- optional parameters
    privateData                     (32), -- optional parameters
    locationInfoList                (35) } -- optional parameters

Offered ::= BIT STRING
{
    originatingNIDConnection   ( 0), -- optional parameters
    userData                     ( 1), -- optional parameters
    servicesPermitted              ( 2), -- optional parameters
    netwCallingDevice              ( 3), -- optional parameters
    netwCalledDevice               ( 4), -- optional parameters
    mediaCallCharacteristics      ( 5), -- optional parameters
    callCharacteristics            ( 6), -- optional parameters
    offeredConnectionInfo         ( 7), -- optional parameters
    subjectOfCall                  ( 9), -- optional parameters

```

```

messageInfo                                (10),   -- optional parameters
languagePreferences                         (11),   -- optional parameters
deviceHistory                               (12),   -- optional parameters
privateData                                  ( 8),   -- optional parameters
locationInfoList                           (13) } -- optional parameters

Originated ::= BIT STRING
{
    originatingDevice                      ( 0),   -- optional parameters
    servicesPermitted                      ( 1),   -- optional parameters
    netwCallingDevice                      ( 2),   -- optional parameters
    netwCalledDevice                       ( 3),   -- optional parameters
    mediaCallCharacteristics               ( 4),   -- optional parameters
    callCharacteristics                    ( 5),   -- optional parameters
    originatedConnectionInfo              ( 6),   -- optional parameters
    subjectOfCall                          ( 8),   -- optional parameters
    messageInfo                            ( 9),   -- optional parameters
    languagePreferences                   (10),   -- optional parameters
    privateData                            ( 7),   -- optional parameters
    locationInfoList                      (11) } -- optional parameters

Queued ::= BIT STRING
{
    numberQueued                           ( 0),   -- optional parameters
    callsInFront                           ( 1),   -- optional parameters
    userData                                ( 2),   -- optional parameters
    servicesPermitted                      ( 3),   -- optional parameters
    netwCallingDevice                      ( 4),   -- optional parameters
    netwCalledDevice                       ( 5),   -- optional parameters
    mediaCallCharacteristics               ( 6),   -- optional parameters
    callCharacteristics                    ( 7),   -- optional parameters
    queuedConnectionInfo                  ( 8),   -- optional parameters
    subjectOfCall                          (10),   -- optional parameters
    messageInfo                            (11),   -- optional parameters
    languagePreferences                   (12),   -- optional parameters
    deviceHistory                          (13),   -- optional parameters
    privateData                            ( 9),   -- optional parameters
    locationInfoList                      (14) } -- optional parameters

Retrieved ::= BIT STRING
{
    correlatorData                         ( 0),   -- optional parameters
    servicesPermitted                      ( 1),   -- optional parameters
    mediaCallCharacteristics               ( 2),   -- optional parameters
    callCharacteristics                    ( 3),   -- optional parameters
    retrievedConnectionInfo              ( 4),   -- optional parameters
    callLinkageData                        ( 6),   -- optional parameters
    languagePreferences                   ( 7),   -- optional parameters
    deviceHistory                          ( 8),   -- optional parameters
    privateData                            ( 5),   -- optional parameters
    locationInfoList                      ( 9) } -- optional parameters

ServiceInitiated ::= BIT STRING
{
    servicesPermitted                      ( 0),   -- optional parameters
    mediaCallCharacteristics               ( 1),   -- optional parameters
    callCharacteristics                    ( 2),   -- optional parameters
    initiatedConnectionInfo              ( 3),   -- optional parameters
    netwCallingDevice                      ( 4),   -- optional parameters
    netwCalledDevice                       ( 5),   -- optional parameters
    subjectOfCall                          ( 7),   -- optional parameters
    messageInfo                            ( 8),   -- optional parameters
    languagePreferences                   ( 9),   -- optional parameters
    privateData                            ( 6),   -- optional parameters

```

```

calledDevice (10), -- optional parameters
locationInfoList (11) } -- optional parameters

Transferred ::= BIT STRING
{
    transferredConnectionsEndpointDeviceID ( 0), -- optional parameters
    transferredConnectionsResultingConnectionInfo ( 1), -- optional parameters
    userData ( 2), -- optional parameters
    chargingInfo ( 3), -- optional parameters
    numberUnitsNumberOfChargingUnits ( 4), -- optional parameters
    numberUnitsTypeOfUnits ( 5), -- optional parameters
    numberUnitsNumberOfCurrencyUnits ( 6), -- optional parameters
    typeOfChargingInfoSubTotal ( 7), -- optional parameters
    typeOfChargingInfoTotal ( 8), -- optional parameters
    chargingMultiplierAThousandth ( 9), -- optional parameters
    chargingMultiplierAHundredth (10), -- optional parameters
    chargingMultiplierATenth (11), -- optional parameters
    chargingMultiplierOne (12), -- optional parameters
    chargingMultiplierTen (13), -- optional parameters
    chargingMultiplierHundred (14), -- optional parameters
    chargingMultiplierThousand (15), -- optional parameters
    servicesPermitted (16), -- optional parameters
    mediaCallCharacteristics (17), -- optional parameters
    callCharacteristics (18), -- optional parameters
    connectionInfo (19), -- optional parameters
    languagePreferences (21), -- optional parameters
    deviceHistory (22), -- optional parameters
    privateData (20) } -- optional parameters

CallAssociatedServList ::= SEQUENCE
{
    associateData [0] IMPLICIT AssociateData OPTIONAL,
    cancelTelephonyTones [1] IMPLICIT CancelTelephonyTones OPTIONAL,
    changeConnectionInformation [5] IMPLICIT ChangeConnectionInformation OPTIONAL,
    generateDigits [2] IMPLICIT GenerateDigits OPTIONAL,
    generateTelephonyTones [3] IMPLICIT GenerateTelephonyTones OPTIONAL,
    sendUserInformation [4] IMPLICIT SendUserInformation OPTIONAL }

AssociateData ::= BIT STRING
{
    accountCode ( 0), -- optional parameters
    authCode ( 1), -- optional parameters
    correlatorData ( 2), -- optional parameters
    callQualifyingData ( 3), -- optional parameters
    callCharacteristics ( 9), -- optional parameters
    subjectOfCall (10), -- optional parameters
    languagePreferences (11), -- optional parameters
    privateData ( 4), -- optional parameters
    privateDataInAck ( 5), -- optional parameters
    deviceIDOnly ( 6), -- misc characteristics
    rejectsRequestsWithOldConnectionID ( 7), -- misc characteristics
    ackModelMultiStep ( 8), -- misc characteristics
    deviceInfo (12) } -- misc characteristics

CancelTelephonyTones ::= BIT STRING
{
    privateData ( 0), -- optional parameters
    privateDataInAck ( 1), -- optional parameters
    ackModelMultiStep ( 2) } -- misc characteristics

ChangeConnectionInformation ::= BIT STRING
{
    privateData ( 0), -- optional parameters
    privateDataInAck ( 1) } -- optional parameters

```

```

GenerateDigits ::= BIT STRING
{
    digitModeDTMF          ( 0),      -- optional parameters
    digitModePulse          ( 1),      -- optional parameters
    toneDuration            ( 2),      -- optional parameters
    pulseRate               ( 3),      -- optional parameters
    pauseDuration           ( 4),      -- optional parameters
    privateData              ( 5),      -- optional parameters
    privateDataInAck         ( 6),      -- optional parameters
    deviceIDOnly             ( 7),      -- misc characteristics
    supportsDTMFTonesABCD   ( 8),      -- misc characteristics
    supportsPauseToneChar    ( 9),      -- misc characteristics
    ackModelMultiStep        (10) }     -- misc characteristics

GenerateTelephonyTones ::= BIT STRING
{
    toneToSendBeep          ( 0),      -- optional parameters
    toneToSendBilling         ( 1),      -- optional parameters
    toneToSendBusy            ( 2),      -- optional parameters
    toneToSendCarrier          ( 3),      -- optional parameters
    toneToSendConfirmation    ( 4),      -- optional parameters
    toneToSendDial             ( 5),      -- optional parameters
    toneToSendFaxCNG           ( 6),      -- optional parameters
    toneToSendHold              ( 7),      -- optional parameters
    toneToSendHowler            ( 8),      -- optional parameters
    toneToSendIntrusion          ( 9),      -- optional parameters
    toneToSendModemCNG          (10),      -- optional parameters
    toneToSendPark              (11),      -- optional parameters
    toneToSendRecordWarning     (12),      -- optional parameters
    toneToSendReorder            (13),      -- optional parameters
    toneToSendRingback           (14),      -- optional parameters
    toneToSendSilence             (15),      -- optional parameters
    toneToSendSITVC              (16),      -- optional parameters
    toneToSendSITIC              (17),      -- optional parameters
    toneToSendSITRO              (18),      -- optional parameters
    toneToSendSITNC              (19),      -- optional parameters
    toneToSendSf0                 (20),      -- optional parameters
    toneToSendSf1                 (21),      -- optional parameters
    toneToSendSf2                 (22),      -- optional parameters
    toneToSendSf3                 (23),      -- optional parameters
    toneToSendSf4                 (24),      -- optional parameters
    toneToSendSf5                 (25),      -- optional parameters
    toneToSendSf6                 (26),      -- optional parameters
    toneToSendSf7                 (27),      -- optional parameters
    toneToSendSf8                 (28),      -- optional parameters
    toneToSendSf9                 (29),      -- optional parameters
    toneToSendSf10                (30),      -- optional parameters
    toneToSendSf11                (31),      -- optional parameters
    toneToSendSf12                (32),      -- optional parameters
    toneToSendSf13                (33),      -- optional parameters
    toneToSendSf14                (34),      -- optional parameters
    toneToSendSf15                (35),      -- optional parameters
    toneToSendSf16                (36),      -- optional parameters
    toneToSendSf17                (37),      -- optional parameters
    toneToSendSf18                (38),      -- optional parameters
    toneToSendSf19                (39),      -- optional parameters
    toneToSendSf20                (40),      -- optional parameters
    toneToSendSf21                (41),      -- optional parameters
    toneToSendSf22                (42),      -- optional parameters
    toneToSendSf23                (43),      -- optional parameters
    toneToSendSf24                (44),      -- optional parameters
    toneToSendSf25                (45),      -- optional parameters
}

```

| | | |
|----------------|--------|------------------------|
| toneToSendSf26 | (46), | -- optional parameters |
| toneToSendSf27 | (47), | -- optional parameters |
| toneToSendSf28 | (48), | -- optional parameters |
| toneToSendSf29 | (49), | -- optional parameters |
| toneToSendSf30 | (50), | -- optional parameters |
| toneToSendSf31 | (51), | -- optional parameters |
| toneToSendSf32 | (52), | -- optional parameters |
| toneToSendSf33 | (53), | -- optional parameters |
| toneToSendSf34 | (54), | -- optional parameters |
| toneToSendSf35 | (55), | -- optional parameters |
| toneToSendSf36 | (56), | -- optional parameters |
| toneToSendSf37 | (57), | -- optional parameters |
| toneToSendSf38 | (58), | -- optional parameters |
| toneToSendSf39 | (59), | -- optional parameters |
| toneToSendSf40 | (60), | -- optional parameters |
| toneToSendSf41 | (61), | -- optional parameters |
| toneToSendSf42 | (62), | -- optional parameters |
| toneToSendSf43 | (63), | -- optional parameters |
| toneToSendSf44 | (64), | -- optional parameters |
| toneToSendSf45 | (65), | -- optional parameters |
| toneToSendSf46 | (66), | -- optional parameters |
| toneToSendSf47 | (67), | -- optional parameters |
| toneToSendSf48 | (68), | -- optional parameters |
| toneToSendSf49 | (69), | -- optional parameters |
| toneToSendSf50 | (70), | -- optional parameters |
| toneToSendSf51 | (71), | -- optional parameters |
| toneToSendSf52 | (72), | -- optional parameters |
| toneToSendSf53 | (73), | -- optional parameters |
| toneToSendSf54 | (74), | -- optional parameters |
| toneToSendSf55 | (75), | -- optional parameters |
| toneToSendSf56 | (76), | -- optional parameters |
| toneToSendSf57 | (77), | -- optional parameters |
| toneToSendSf58 | (78), | -- optional parameters |
| toneToSendSf59 | (79), | -- optional parameters |
| toneToSendSf60 | (80), | -- optional parameters |
| toneToSendSf61 | (81), | -- optional parameters |
| toneToSendSf62 | (82), | -- optional parameters |
| toneToSendSf63 | (83), | -- optional parameters |
| toneToSendSf64 | (84), | -- optional parameters |
| toneToSendSf65 | (85), | -- optional parameters |
| toneToSendSf66 | (86), | -- optional parameters |
| toneToSendSf67 | (87), | -- optional parameters |
| toneToSendSf68 | (88), | -- optional parameters |
| toneToSendSf69 | (89), | -- optional parameters |
| toneToSendSf70 | (90), | -- optional parameters |
| toneToSendSf71 | (91), | -- optional parameters |
| toneToSendSf72 | (92), | -- optional parameters |
| toneToSendSf73 | (93), | -- optional parameters |
| toneToSendSf74 | (94), | -- optional parameters |
| toneToSendSf75 | (95), | -- optional parameters |
| toneToSendSf76 | (96), | -- optional parameters |
| toneToSendSf77 | (97), | -- optional parameters |
| toneToSendSf78 | (98), | -- optional parameters |
| toneToSendSf79 | (99), | -- optional parameters |
| toneToSendSf80 | (100), | -- optional parameters |
| toneToSendSf81 | (101), | -- optional parameters |
| toneToSendSf82 | (102), | -- optional parameters |
| toneToSendSf83 | (103), | -- optional parameters |
| toneToSendSf84 | (104), | -- optional parameters |
| toneToSendSf85 | (105), | -- optional parameters |

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toneToSendSf86          (106),    -- optional parameters
toneToSendSf87          (107),    -- optional parameters
toneToSendSf88          (108),    -- optional parameters
toneToSendSf89          (109),    -- optional parameters
toneToSendSf90          (110),    -- optional parameters
toneToSendSf91          (111),    -- optional parameters
toneToSendSf92          (112),    -- optional parameters
toneToSendSf93          (113),    -- optional parameters
toneToSendSf94          (114),    -- optional parameters
toneToSendSf95          (115),    -- optional parameters
toneToSendSf96          (116),    -- optional parameters
toneToSendSf97          (117),    -- optional parameters
toneToSendSf98          (118),    -- optional parameters
toneToSendSf99          (119),    -- optional parameters
toneToSendSf100         (120),    -- optional parameters
toneDuration            (121),    -- optional parameters
privateData              (122),    -- optional parameters
privateDataInAck         (123),    -- optional parameters
deviceIDOnly             (124),    -- misc characteristics
ackModelMultiStep        (125) } -- misc characteristics

SendUserInformation ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck     ( 1),    -- optional parameters
    deviceIDOnly         ( 2),    -- misc characteristics
    ackModelMultiStep    ( 3) } -- misc characteristics

CallAssociatedEvtsList ::= SEQUENCE
{
    callInformation       [0] IMPLICIT CallInformation OPTIONAL,
    charging              [1] IMPLICIT Charging OPTIONAL,
    digitsGenerated       [2] IMPLICIT DigitsGenerated OPTIONAL,
    telephonyTonesGenerated [3] IMPLICIT TelephonyTonesGenerated OPTIONAL,
    serviceCompletionFailure [4] IMPLICIT ServiceCompletionFailure OPTIONAL }

CallInformation ::= BIT STRING
{
    callingDevice          ( 0),    -- optional parameters
    accountInfo            ( 1),    -- optional parameters
    authorisatinonCode     ( 2),    -- optional parameters
    correlatorData          ( 3),    -- optional parameters
    servicesPermitted       ( 4),    -- optional parameters
    userData                ( 5),    -- optional parameters
    callQualifyingData      ( 6),    -- optional parameters
    connectionInfo          ( 7),    -- optional parameters
    callLinkageData          (10),   -- optional parameters
    callCharacteristics      (11),   -- optional parameters
    subjectOfCall            (12),   -- optional parameters
    languagePreferences       (13),   -- optional parameters
    privateData              ( 8),    -- optional parameters
    genCallInfoForOutdatedConnID [9], IMPLICIT ServiceCompletionFailure OPTIONAL,
    deviceInfo               (14) } -- optional parameters

Charging ::= BIT STRING
{
    numberUnitsNumberOfChargingUnits ( 0),    -- optional parameters
    numberUnitsTypeOfUnits        ( 1),    -- optional parameters
    numberUnitsNumberOfCurrencyUnits ( 2),   -- optional parameters
    typeOfChargingInfoSubTotal    ( 3),    -- optional parameters
    typeOfChargingInfoTotal       ( 4),    -- optional parameters
    chargingMultiplierAThousandth ( 5),    -- optional parameters
    chargingMultiplierAHundredth  ( 6),    -- optional parameters
    chargingMultiplierATenth      ( 7),    -- optional parameters

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chargingMultiplierOne          ( 8),    -- optional parameters
chargingMultiplierTen         ( 9),    -- optional parameters
chargingMultiplierHundred     (10),    -- optional parameters
chargingMultiplierThousand    (11),    -- optional parameters
privateData                   (12) } -- optional parameters

DigitsGenerated ::= BIT STRING
{
  digitsDurationList          ( 0),    -- optional parameters
  pauseDurationList           ( 1),    -- optional parameters
  connectionInfo               ( 2),    -- optional parameters
  privateData                  ( 3) } -- optional parameters

TelephonyTonesGenerated ::= BIT STRING
{
  toneToSendBeep               ( 0),    -- optional parameters
  toneToSendBilling             ( 1),    -- optional parameters
  toneToSendBusy                ( 2),    -- optional parameters
  toneToSendCarrier              ( 3),    -- optional parameters
  toneToSendConfirmation        ( 4),    -- optional parameters
  toneToSendDial                 ( 5),    -- optional parameters
  toneToSendFaxCNG              ( 6),    -- optional parameters
  toneToSendHold                 ( 7),    -- optional parameters
  toneToSendHowler               ( 8),    -- optional parameters
  toneToSendIntrusion             ( 9),    -- optional parameters
  toneToSendModemCNG             (10),   -- optional parameters
  toneToSendPark                  (11),   -- optional parameters
  toneToSendRecordWarning        (12),   -- optional parameters
  toneToSendReorder               (13),   -- optional parameters
  toneToSendRingback              (14),   -- optional parameters
  toneToSendSilence                (15),   -- optional parameters
  toneToSendSipVC                  (16),   -- optional parameters
  toneToSendSipIC                  (17),   -- optional parameters
  toneToSendSipRO                  (18),   -- optional parameters
  toneToSendSipNC                  (19),   -- optional parameters
  toneToSendSf0                    (20),   -- optional parameters
  toneToSendSf1                    (21),   -- optional parameters
  toneToSendSf2                    (22),   -- optional parameters
  toneToSendSf3                    (23),   -- optional parameters
  toneToSendSf4                    (24),   -- optional parameters
  toneToSendSf5                    (25),   -- optional parameters
  toneToSendSf6                    (26),   -- optional parameters
  toneToSendSf7                    (27),   -- optional parameters
  toneToSendSf8                    (28),   -- optional parameters
  toneToSendSf9                    (29),   -- optional parameters
  toneToSendSf10                   (30),   -- optional parameters
  toneToSendSf11                   (31),   -- optional parameters
  toneToSendSf12                   (32),   -- optional parameters
  toneToSendSf13                   (33),   -- optional parameters
  toneToSendSf14                   (34),   -- optional parameters
  toneToSendSf15                   (35),   -- optional parameters
  toneToSendSf16                   (36),   -- optional parameters
  toneToSendSf17                   (37),   -- optional parameters
  toneToSendSf18                   (38),   -- optional parameters
  toneToSendSf19                   (39),   -- optional parameters
  toneToSendSf20                   (40),   -- optional parameters
  toneToSendSf21                   (41),   -- optional parameters
  toneToSendSf22                   (42),   -- optional parameters
  toneToSendSf23                   (43),   -- optional parameters
  toneToSendSf24                   (44),   -- optional parameters
  toneToSendSf25                   (45),   -- optional parameters
  toneToSendSf26                   (46),   -- optional parameters

```

| | |
|----------------|-------------------------------|
| toneToSendSf27 | (47), -- optional parameters |
| toneToSendSf28 | (48), -- optional parameters |
| toneToSendSf29 | (49), -- optional parameters |
| toneToSendSf30 | (50), -- optional parameters |
| toneToSendSf31 | (51), -- optional parameters |
| toneToSendSf32 | (52), -- optional parameters |
| toneToSendSf33 | (53), -- optional parameters |
| toneToSendSf34 | (54), -- optional parameters |
| toneToSendSf35 | (55), -- optional parameters |
| toneToSendSf36 | (56), -- optional parameters |
| toneToSendSf37 | (57), -- optional parameters |
| toneToSendSf38 | (58), -- optional parameters |
| toneToSendSf39 | (59), -- optional parameters |
| toneToSendSf40 | (60), -- optional parameters |
| toneToSendSf41 | (61), -- optional parameters |
| toneToSendSf42 | (62), -- optional parameters |
| toneToSendSf43 | (63), -- optional parameters |
| toneToSendSf44 | (64), -- optional parameters |
| toneToSendSf45 | (65), -- optional parameters |
| toneToSendSf46 | (66), -- optional parameters |
| toneToSendSf47 | (67), -- optional parameters |
| toneToSendSf48 | (68), -- optional parameters |
| toneToSendSf49 | (69), -- optional parameters |
| toneToSendSf50 | (70), -- optional parameters |
| toneToSendSf51 | (71), -- optional parameters |
| toneToSendSf52 | (72), -- optional parameters |
| toneToSendSf53 | (73), -- optional parameters |
| toneToSendSf54 | (74), -- optional parameters |
| toneToSendSf55 | (75), -- optional parameters |
| toneToSendSf56 | (76), -- optional parameters |
| toneToSendSf57 | (77), -- optional parameters |
| toneToSendSf58 | (78), -- optional parameters |
| toneToSendSf59 | (79), -- optional parameters |
| toneToSendSf60 | (80), -- optional parameters |
| toneToSendSf61 | (81), -- optional parameters |
| toneToSendSf62 | (82), -- optional parameters |
| toneToSendSf63 | (83), -- optional parameters |
| toneToSendSf64 | (84), -- optional parameters |
| toneToSendSf65 | (85), -- optional parameters |
| toneToSendSf66 | (86), -- optional parameters |
| toneToSendSf67 | (87), -- optional parameters |
| toneToSendSf68 | (88), -- optional parameters |
| toneToSendSf69 | (89), -- optional parameters |
| toneToSendSf70 | (90), -- optional parameters |
| toneToSendSf71 | (91), -- optional parameters |
| toneToSendSf72 | (92), -- optional parameters |
| toneToSendSf73 | (93), -- optional parameters |
| toneToSendSf74 | (94), -- optional parameters |
| toneToSendSf75 | (95), -- optional parameters |
| toneToSendSf76 | (96), -- optional parameters |
| toneToSendSf77 | (97), -- optional parameters |
| toneToSendSf78 | (98), -- optional parameters |
| toneToSendSf79 | (99), -- optional parameters |
| toneToSendSf80 | (100), -- optional parameters |
| toneToSendSf81 | (101), -- optional parameters |
| toneToSendSf82 | (102), -- optional parameters |
| toneToSendSf83 | (103), -- optional parameters |
| toneToSendSf84 | (104), -- optional parameters |
| toneToSendSf85 | (105), -- optional parameters |
| toneToSendSf86 | (106), -- optional parameters |

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toneToSendSf87                                (107), -- optional parameters
toneToSendSf88                                (108), -- optional parameters
toneToSendSf89                                (109), -- optional parameters
toneToSendSf90                                (110), -- optional parameters
toneToSendSf91                                (111), -- optional parameters
toneToSendSf92                                (112), -- optional parameters
toneToSendSf93                                (113), -- optional parameters
toneToSendSf94                                (114), -- optional parameters
toneToSendSf95                                (115), -- optional parameters
toneToSendSf96                                (116), -- optional parameters
toneToSendSf97                                (117), -- optional parameters
toneToSendSf98                                (118), -- optional parameters
toneToSendSf99                                (119), -- optional parameters
toneToSendSf100                               (120), -- optional parameters
toneFrequency                                 (121), -- optional parameters
toneDuration                                  (122), -- optional parameters
pauseDurationList                            (123), -- optional parameters
connectionInfo                                (124), -- optional parameters
privateData                                    (125) } -- optional parameters

ServiceCompletionFailure ::= BIT STRING
{
    primaryCallConnectionInfo                ( 0), -- optional parameters
    secondaryCallConnectionInfo              ( 1), -- optional parameters
    otherDevicesPrimaryCallList              ( 2), -- optional parameters
    otherDevicesSecondaryCallList            ( 3), -- optional parameters
    mediaCallCharacteristics                 ( 4), -- optional parameters
    privateData                           ( 5) } -- optional parameters

MediaServList ::= SEQUENCE
{
    attachMediaService          [0] IMPLICIT     AttachMediaService      OPTIONAL,
    detachMediaService          [1] IMPLICIT     DetachMediaService     OPTIONAL }

AttachMediaService ::= BIT STRING
{
    mediaServiceVersion                  ( 0), -- optional parameters
    mediaServiceInstanceId               ( 1), -- optional parameters
    connectionModeConsultConference    ( 2), -- optional parameters
    connectionModeConsultConferenceHold ( 3), -- optional parameters
    connectionModeDeflect                ( 4), -- optional parameters
    connectionModeDirectedPickup       ( 5), -- optional parameters
    connectionModeJoin                  ( 6), -- optional parameters
    connectionModeSingleStepConference ( 7), -- optional parameters
    connectionModeSingleStepConferenceHold ( 8), -- optional parameters
    connectionModeSingleStepTransfer    ( 9), -- optional parameters
    connectionModeTransfer              (10), -- optional parameters
    connectionModeDirect                (11), -- optional parameters
    requestedConnectionState           (12), -- optional parameters
    privateData                         (13), -- optional parameters
    mediaServiceInstanceIdInAck        (14), -- optional parameters
    mediaConnectionInfoInAck           (15), -- optional parameters
    privateDataInAck                  (16), -- optional parameters
    deviceIDOnly                      (17), -- misc characteristics
    ackModelMultiStep                 (18) } -- misc characteristics

DetachMediaService ::= BIT STRING
{
    alerting                           ( 0), -- initial states
    connected                          ( 1), -- initial states
    fail                               ( 2), -- initial states
    hold                               ( 3), -- initial states
    queued                             ( 4), -- initial states
    privateData                        ( 5), -- optional parameters

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privateDataInAck          ( 6),    -- optional parameters
deviceIDOnly              ( 7),    -- misc characteristics
ackModelMultiStep         ( 8) }    -- misc characteristics

MediaEvtsList ::= SEQUENCE
{
    mediaAttached           [ 0] IMPLICIT   MediaAttached      OPTIONAL,
    mediaDetached            [ 1] IMPLICIT   MediaDetached     OPTIONAL }

MediaAttached ::= BIT STRING
{
    mediaServiceVersion      ( 0),    -- optional parameters
    mediaServiceInstanceID    ( 1),    -- optional parameters
    mediaStreamID             ( 2),    -- optional parameters
    mediaCallCharacteristics  ( 3),    -- optional parameters
    callCharacteristics       ( 4),    -- optional parameters
    mediaConnectionInfo       ( 5),    -- optional parameters
    privateData                ( 6) }    -- optional parameters

MediaDetached ::= BIT STRING
{
    mediaServiceVersion      ( 0),    -- optional parameters
    mediaServiceInstanceID    ( 1),    -- optional parameters
    mediaStreamID             ( 2),    -- optional parameters
    mediaCallCharacteristics  ( 3),    -- optional parameters
    callCharacteristics       ( 4),    -- optional parameters
    mediaConnectionInfo       ( 5),    -- optional parameters
    privateData                ( 6) }    -- optional parameters

RouteingServList ::= SEQUENCE
{
    routeRegister             [ 0] IMPLICIT   RouteRegister      OPTIONAL,
    routeRegisterCancel        [ 1] IMPLICIT   RouteRegisterCancel OPTIONAL,
    routeRegisterAbort         [ 2] IMPLICIT   RouteRegisterAbort  OPTIONAL,
    reRoute                     [ 3] IMPLICIT   ReRoute          OPTIONAL,
    routeEnd                   [ 4] IMPLICIT   RouteEnd          OPTIONAL,
    routeReject                 [ 5] IMPLICIT   RouteReject       OPTIONAL,
    routeRequest                 [ 6] IMPLICIT   RouteRequest      OPTIONAL,
    routeSelect                  [ 7] IMPLICIT   RouteSelect       OPTIONAL,
    routeUsed                   [ 8] IMPLICIT   RouteUsed        OPTIONAL }

RouteRegister ::= BIT STRING
{
    routeingDevice              ( 0),    -- optional parameters
    requestedMonitorMediaClass    ( 1),    -- optional parameters
    requestedMonitorMediaClassAudio ( 2),    -- optional parameters
    requestedMonitorMediaClassData ( 3),    -- optional parameters
    requestedMonitorMediaClassImage ( 4),    -- optional parameters
    requestedMonitorMediaClassVoice ( 5),    -- optional parameters
    requestedMonitorMediaClassChat (10),    -- optional parameters
    requestedMonitorMediaClassEmail (11),    -- optional parameters
    requestedMonitorMediaClassMessage (12),    -- optional parameters
    requestedMonitorMediaClassIM (13),    -- optional parameters
    requestedMonitorMediaClassSMS (14),    -- optional parameters
    requestedMonitorMediaClassMMS (15),    -- optional parameters
    privateData                  ( 6),    -- optional parameters
    actualRouteingMediaClassInAck ( 7),    -- optional parameters
    privateDataInAck              ( 8),    -- optional parameters
    allRouteingDevices            ( 9) }    -- misc characteristics

RouteRegisterAbort ::= BIT STRING
{
    privateData                  ( 0) }    -- optional parameters

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RouteRegisterCancel ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    privateDataInAck                          ( 1) } -- optional parameters

ReRoute ::= BIT STRING
{
    replyTimeout                            ( 1), -- optional parameters
    correlatorData                           ( 2), -- optional parameters
    privateData                             ( 3) } -- optional parameters

RouteEnd ::= BIT STRING
{
    errorValue                                ( 1), -- optional parameters
    correlatorData                           ( 2), -- optional parameters
    privateData                             ( 3), -- optional parameters
    supportsSending                         ( 4), -- misc characteristics
    supportsReceiving                      ( 5) } -- misc characteristics

RouteReject ::= BIT STRING
{
    rejectCauseBusyOverflow                ( 0), -- optional parameters
    rejectCauseQueueTimeOverflow          ( 1), -- optional parameters
    rejectCauseCapacityOverflow           ( 2), -- optional parameters
    rejectCauseCalendarOverflow          ( 3), -- optional parameters
    rejectCauseUnknownOverflow           ( 4), -- optional parameters
    correlatorData                           ( 5), -- optional parameters
    privateData                             ( 6) } -- optional parameters

RouteRequest ::= BIT STRING
{
    callingDevice                            ( 0), -- optional parameters
    routeingDevice                           ( 1), -- optional parameters
    routeSelAlgorithmACD                   ( 2), -- optional parameters
    routeSelAlgorithmEmergency            ( 3), -- optional parameters
    routeSelAlgorithmLeastCost             ( 4), -- optional parameters
    routeSelAlgorithmNormal               ( 5), -- optional parameters
    routeSelAlgorithmUserDefined          ( 6), -- optional parameters
    priority                                 ( 7), -- optional parameters
    replyTimeout                            ( 8), -- optional parameters
    correlatorData                           ( 9), -- optional parameters
    mediaCallCharacteristics              (10), -- optional parameters
    callCharacteristics                     (11), -- optional parameters
    routedCallInfo                           (12), -- optional parameters
    subjectOfCall                            (15), -- optional parameters
    messageInformation                     (16), -- optional parameters
    languagePreferences                    (17), -- optional parameters
    deviceHistory                           (18), -- optional parameters
    privateData                             (13), -- optional parameters
    nonCallRelatedRouteing                 (14) } -- misc characteristics

RouteSelect ::= BIT STRING
{
    alternateRoutes                          ( 0), -- optional parameters
    remainRetriesNoListAvailable          ( 1), -- optional parameters
    remainRetriesNoCountAvailable         ( 2), -- optional parameters
    remainRetriesRetryCount               ( 3), -- optional parameters
    routeUsed                               ( 4), -- optional parameters
    correlatorData                           ( 5), -- optional parameters
    privateData                             ( 6) } -- optional parameters

RouteUsed ::= BIT STRING
{
    callingDevice                            ( 0), -- optional parameters
    domain                                  ( 1), -- optional parameters
    correlatorData                           ( 2), -- optional parameters
    privateData                             ( 3) } -- optional parameters

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PhysDevServList ::= SEQUENCE
{
    buttonPress                               [ 0] IMPLICIT ButtonPress           OPTIONAL,
    getAuditoryApparatusInfo                 [ 1] IMPLICIT GetAuditoryApparatusInfo OPTIONAL,
    getButtonInformation                      [ 2] IMPLICIT GetButtonInformation   OPTIONAL,
    getDisplay                                [ 3] IMPLICIT GetDisplay             OPTIONAL,
    getHookSwitchStatus                      [ 4] IMPLICIT GetHookSwitchStatus   OPTIONAL,
    getLampInfo                                [ 5] IMPLICIT GetLampInfo            OPTIONAL,
    getLampMode                               [ 6] IMPLICIT GetLampMode           OPTIONAL,
    getMessageWaitingIndicator                [ 7] IMPLICIT GetMessageWaitingIndicator OPTIONAL,
    getMicrophoneGain                         [ 8] IMPLICIT GetMicrophoneGain     OPTIONAL,
    getMicrophoneMute                         [ 9] IMPLICIT GetMicrophoneMute     OPTIONAL,
    getRingerStatus                           [10] IMPLICIT GetRingerStatus       OPTIONAL,
    getSpeakerMute                            [11] IMPLICIT GetSpeakerMute        OPTIONAL,
    getSpeakerVolume                          [12] IMPLICIT GetSpeakerVolume       OPTIONAL,
    setButtonInformation                      [13] IMPLICIT SetButtonInformation  OPTIONAL,
    setDisplay                                [14] IMPLICIT SetDisplay            OPTIONAL,
    setHookSwitchStatus                      [15] IMPLICIT SetHookSwitchStatus  OPTIONAL,
    setLampMode                               [16] IMPLICIT SetLampMode          OPTIONAL,
    setMessageWaitingIndicator               [17] IMPLICIT SetMessageWaitingIndicator OPTIONAL,
    setMicrophoneGain                        [18] IMPLICIT SetMicrophoneGain    OPTIONAL,
    setMicrophoneMute                         [19] IMPLICIT SetMicrophoneMute    OPTIONAL,
    setRingerStatus                           [20] IMPLICIT SetRingerStatus      OPTIONAL,
    setSpeakerMute                            [21] IMPLICIT SetSpeakerMute       OPTIONAL,
    setSpeakerVolume                          [22] IMPLICIT SetSpeakerVolume     OPTIONAL }

ButtonPress ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    privateDataInAck                         ( 1), -- optional parameters
    ackModelMultiStep                        ( 2) } -- misc characteristics

GetAuditoryApparatusInfo ::= BIT STRING
{
    auditoryApparatus                       ( 0), -- optional parameters
    privateData                             ( 1), -- optional parameters
    auditoryApparatusTypeSpeakerphone       ( 2), -- optional parameters
    auditoryApparatusTypeHandset           ( 3), -- optional parameters
    auditoryApparatusTypeHeadset          ( 4), -- optional parameters
    auditoryApparatusTypeSpeakerOnlyPhone ( 5), -- optional parameters
    auditoryApparatusTypeOther             ( 6), -- optional parameters
    speakerPresent                          ( 7), -- optional parameters
    speakerVolumeSettable                  ( 8), -- optional parameters
    speakerVolumeReadable                 ( 9), -- optional parameters
    speakerMuteSettable                   (10), -- optional parameters
    speakerMuteReadable                  (11), -- optional parameters
    microphonePresent                     (12), -- optional parameters
    microphoneGainSettable                (13), -- optional parameters
    microphoneGainReadable               (14), -- optional parameters
    microphoneMuteSettable                (15), -- optional parameters
    microphoneMuteReadable              (16), -- optional parameters
    hookswitchSettable                    (17), -- optional parameters
    hookswitchOnHook                      (18), -- optional parameters
    privateDataInAck                      (19) } -- optional parameters

GetButtonInformation ::= BIT STRING
{
    button                                  ( 0), -- optional parameters
    privateData                            ( 1), -- optional parameters
    buttonLabelInAck                      ( 2), -- optional parameters
    buttonLabelSettableInAck              ( 3), -- optional parameters
    buttonFunctionInAck                  ( 4), -- optional parameters
    buttonAssociatedNumberInAck          ( 5), -- optional parameters

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buttonAssociatedNumberSettableInAck          ( 6), -- optional parameters
listOfLampsInAck                            ( 7), -- optional parameters
privateDataInAck                            ( 8) } -- optional parameters

GetDisplay ::= BIT STRING
{
    displayID                               ( 0), -- optional parameters
    privateData                             ( 1), -- optional parameters
    characterSetASCII                      ( 2), -- optional parameters
    characterSetUnicode                    ( 3), -- optional parameters
    characterSetProprietary                ( 4), -- optional parameters
    privateDataInAck                      ( 5) } -- optional parameters

GetHookSwitchStatus ::= BIT STRING
{
    hookSwitch                             ( 0), -- optional parameters
    privateData                           ( 1), -- optional parameters
    privateDataInAck                     ( 2) } -- optional parameters

GetLampInfo ::= BIT STRING
{
    lamp                                 ( 0), -- optional parameters
    privateData                         ( 1), -- optional parameters
    lampLabelInAck                     ( 2), -- optional parameters
    buttonInAck                          ( 3), -- optional parameters
    lampColorInAck                     ( 4), -- optional parameters
    privateDataInAck                   ( 5) } -- optional parameters

GetLampMode ::= BIT STRING
{
    lamp                                ( 0), -- optional parameters
    privateData                        ( 1), -- optional parameters
    lampModeInAck                     ( 2), -- optional parameters
    lampBrightnessNormal               ( 3), -- optional parameters
    lampBrightnessDim                  ( 4), -- optional parameters
    lampBrightnessBright              ( 5), -- optional parameters
    lampColorInAck                   ( 6), -- optional parameters
    buttonInAck                        ( 7), -- optional parameters
    privateDataInAck                 ( 8) } -- optional parameters

GetMessageWaitingIndicator ::= BIT STRING
{
    privateData                         ( 0), -- optional parameter
    deviceForMsgInAck                  ( 1), -- optional parameter
    lampIsPresentInAck                ( 2), -- optional parameter
    privateDataInAck                  ( 3) } -- optional parameters

GetMicrophoneGain ::= BIT STRING
{
    auditoryApparatus                ( 0), -- optional parameters
    privateData                       ( 1), -- optional parameters
    micGainAbsInAck                  ( 2), -- optional parameters
    privateDataInAck                 ( 3) } -- optional parameters

GetMicrophoneMute ::= BIT STRING
{
    auditoryApparatus                ( 0), -- optional parameters
    privateData                       ( 1), -- optional parameters
    privateDataInAck                  ( 2) } -- optional parameters

GetRingerStatus ::= BIT STRING
{
    ringer                              ( 0), -- optional parameters
    privateData                        ( 1), -- optional parameters
    ringCountInAck                   ( 2), -- optional parameters
    ringPatternInAck                 ( 3), -- optional parameters
    ringVolumeInAck                  ( 4), -- optional parameters
    ringVolumeAbsInAck               ( 5), -- optional parameters

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privateDataInAck           ( 6 ) -- optional parameters

GetSpeakerMute ::= BIT STRING
{
    auditoryApparatus      ( 0 ), -- optional parameters
    privateDataInAck        ( 1 ), -- optional parameters
    privateData              ( 2 ) } -- optional parameters

GetSpeakerVolume ::= BIT STRING
{
    auditoryApparatus      ( 0 ), -- optional parameters
    privateData              ( 1 ), -- optional parameters
    speakerVolAbsInAck      ( 2 ), -- optional parameters
    privateDataInAck        ( 3 ) } -- optional parameters

SetButtonInformation ::= BIT STRING
{
    buttonLabel              ( 0 ), -- optional parameters
    buttonAssociatedNumber   ( 1 ), -- optional parameters
    privateData              ( 2 ), -- optional parameters
    privateDataInAck         ( 3 ), -- optional parameters
    ackModelMultiStep        ( 4 ) } -- misc characteristics

SetDisplay ::= BIT STRING
{
    physBaseRowNumber        ( 0 ), -- optional parameters
    physColumnRowNumber      ( 1 ), -- optional parameters
    offset                   ( 2 ), -- optional parameters
    privateData              ( 3 ), -- optional parameters
    privateDataInAck         ( 4 ), -- optional parameters
    supportsModifyingPosition ( 5 ), -- misc characteristics
    ackModelMultiStep        ( 6 ) } -- misc characteristics

SetHookSwitchStatus ::= BIT STRING
{
    privateData              ( 0 ), -- optional parameters
    ackModelMultiStep        ( 1 ) } -- misc characteristics

SetLampMode ::= BIT STRING
{
    lampModeBrokenFlutter    ( 0 ), -- optional parameter
    lampModeFlutter           ( 1 ), -- optional parameter
    lampModeOff               ( 2 ), -- optional parameter
    lampModeSteady            ( 3 ), -- optional parameter
    lampModeWink               ( 4 ), -- optional parameter
    lampModeReserved           ( 5 ), -- optional parameter
    lampModeSf0                 ( 6 ), -- optional parameters
    lampModeSf1                 ( 7 ), -- optional parameters
    lampModeSf2                 ( 8 ), -- optional parameters
    lampModeSf3                 ( 9 ), -- optional parameters
    lampModeSf4                 ( 10 ), -- optional parameters
    lampModeSf5                 ( 11 ), -- optional parameters
    lampModeSf6                 ( 12 ), -- optional parameters
    lampModeSf7                 ( 13 ), -- optional parameters
    lampModeSf8                 ( 14 ), -- optional parameters
    lampModeSf9                 ( 15 ), -- optional parameters
    lampModeSf10                ( 16 ), -- optional parameters
    lampModeSf11                ( 17 ), -- optional parameters
    lampModeSf12                ( 18 ), -- optional parameters
    lampModeSf13                ( 19 ), -- optional parameters
    lampModeSf14                ( 20 ), -- optional parameters
    lampModeSf15                ( 21 ), -- optional parameters
    lampModeSf16                ( 22 ), -- optional parameters
    lampModeSf17                ( 23 ), -- optional parameters
    lampModeSf18                ( 24 ), -- optional parameters
    lampModeSf19                ( 25 ), -- optional parameters

```

```
lampModeSf20          ( 26), -- optional parameters
lampModeSf21          ( 27), -- optional parameters
lampModeSf22          ( 28), -- optional parameters
lampModeSf23          ( 29), -- optional parameters
lampModeSf24          ( 30), -- optional parameters
lampModeSf25          ( 31), -- optional parameters
lampModeSf26          ( 32), -- optional parameters
lampModeSf27          ( 33), -- optional parameters
lampModeSf28          ( 34), -- optional parameters
lampModeSf29          ( 35), -- optional parameters
lampModeSf30          ( 36), -- optional parameters
lampModeSf31          ( 37), -- optional parameters
lampModeSf32          ( 38), -- optional parameters
lampModeSf33          ( 39), -- optional parameters
lampModeSf34          ( 40), -- optional parameters
lampModeSf35          ( 41), -- optional parameters
lampModeSf36          ( 42), -- optional parameters
lampModeSf37          ( 43), -- optional parameters
lampModeSf38          ( 44), -- optional parameters
lampModeSf39          ( 45), -- optional parameters
lampModeSf40          ( 46), -- optional parameters
lampModeSf41          ( 47), -- optional parameters
lampModeSf42          ( 48), -- optional parameters
lampModeSf43          ( 49), -- optional parameters
lampModeSf44          ( 50), -- optional parameters
lampModeSf45          ( 51), -- optional parameters
lampModeSf46          ( 52), -- optional parameters
lampModeSf47          ( 53), -- optional parameters
lampModeSf48          ( 54), -- optional parameters
lampModeSf49          ( 55), -- optional parameters
lampModeSf50          ( 56), -- optional parameters
lampModeSf51          ( 57), -- optional parameters
lampModeSf52          ( 58), -- optional parameters
lampModeSf53          ( 59), -- optional parameters
lampModeSf54          ( 60), -- optional parameters
lampModeSf55          ( 61), -- optional parameters
lampModeSf56          ( 62), -- optional parameters
lampModeSf57          ( 63), -- optional parameters
lampModeSf58          ( 64), -- optional parameters
lampModeSf59          ( 65), -- optional parameters
lampModeSf60          ( 66), -- optional parameters
lampModeSf61          ( 67), -- optional parameters
lampModeSf62          ( 68), -- optional parameters
lampModeSf63          ( 69), -- optional parameters
lampModeSf64          ( 70), -- optional parameters
lampModeSf65          ( 71), -- optional parameters
lampModeSf66          ( 72), -- optional parameters
lampModeSf67          ( 73), -- optional parameters
lampModeSf68          ( 74), -- optional parameters
lampModeSf69          ( 75), -- optional parameters
lampModeSf70          ( 76), -- optional parameters
lampModeSf71          ( 77), -- optional parameters
lampModeSf72          ( 78), -- optional parameters
lampModeSf73          ( 79), -- optional parameters
lampModeSf74          ( 80), -- optional parameters
lampModeSf75          ( 81), -- optional parameters
lampModeSf76          ( 82), -- optional parameters
lampModeSf77          ( 83), -- optional parameters
lampModeSf78          ( 84), -- optional parameters
lampModeSf79          ( 85), -- optional parameters
```

| | |
|----------------------|-------------------------------|
| lampModeSf80 | (86), -- optional parameters |
| lampModeSf81 | (87), -- optional parameters |
| lampModeSf82 | (88), -- optional parameters |
| lampModeSf83 | (89), -- optional parameters |
| lampModeSf84 | (90), -- optional parameters |
| lampModeSf85 | (91), -- optional parameters |
| lampModeSf86 | (92), -- optional parameters |
| lampModeSf87 | (93), -- optional parameters |
| lampModeSf88 | (94), -- optional parameters |
| lampModeSf89 | (95), -- optional parameters |
| lampModeSf90 | (96), -- optional parameters |
| lampModeSf91 | (97), -- optional parameters |
| lampModeSf92 | (98), -- optional parameters |
| lampModeSf93 | (99), -- optional parameters |
| lampModeSf94 | (100), -- optional parameters |
| lampBrightnessNormal | (101), -- optional parameters |
| lampBrightnessDim | (102), -- optional parameters |
| lampBrightnessBright | (103), -- optional parameters |
| lampColorNoColor | (104), -- optional parameters |
| lampColorRed | (105), -- optional parameters |
| lampColorYellow | (106), -- optional parameters |
| lampColorGreen | (107), -- optional parameters |
| lampColorBlue | (108), -- optional parameters |
| lampColorReserved | (109), -- optional parameters |
| lampColorSf0 | (110), -- optional parameters |
| lampColorSf1 | (111), -- optional parameters |
| lampColorSf2 | (112), -- optional parameters |
| lampColorSf3 | (113), -- optional parameters |
| lampColorSf4 | (114), -- optional parameters |
| lampColorSf5 | (115), -- optional parameters |
| lampColorSf6 | (116), -- optional parameters |
| lampColorSf7 | (117), -- optional parameters |
| lampColorSf8 | (118), -- optional parameters |
| lampColorSf9 | (119), -- optional parameters |
| lampColorSf10 | (120), -- optional parameters |
| lampColorSf11 | (121), -- optional parameters |
| lampColorSf12 | (122), -- optional parameters |
| lampColorSf13 | (123), -- optional parameters |
| lampColorSf14 | (124), -- optional parameters |
| lampColorSf15 | (125), -- optional parameters |
| lampColorSf16 | (126), -- optional parameters |
| lampColorSf17 | (127), -- optional parameters |
| lampColorSf18 | (128), -- optional parameters |
| lampColorSf19 | (129), -- optional parameters |
| lampColorSf20 | (130), -- optional parameters |
| lampColorSf21 | (131), -- optional parameters |
| lampColorSf22 | (132), -- optional parameters |
| lampColorSf23 | (133), -- optional parameters |
| lampColorSf24 | (134), -- optional parameters |
| lampColorSf25 | (135), -- optional parameters |
| lampColorSf26 | (136), -- optional parameters |
| lampColorSf27 | (137), -- optional parameters |
| lampColorSf28 | (138), -- optional parameters |
| lampColorSf29 | (139), -- optional parameters |
| lampColorSf30 | (140), -- optional parameters |
| lampColorSf31 | (141), -- optional parameters |
| lampColorSf32 | (142), -- optional parameters |
| lampColorSf33 | (143), -- optional parameters |
| lampColorSf34 | (144), -- optional parameters |
| lampColorSf35 | (145), -- optional parameters |

```
lampColorSf36          (146),  -- optional parameters
lampColorSf37          (147),  -- optional parameters
lampColorSf38          (148),  -- optional parameters
lampColorSf39          (149),  -- optional parameters
lampColorSf40          (150),  -- optional parameters
lampColorSf41          (151),  -- optional parameters
lampColorSf42          (152),  -- optional parameters
lampColorSf43          (153),  -- optional parameters
lampColorSf44          (154),  -- optional parameters
lampColorSf45          (155),  -- optional parameters
lampColorSf46          (156),  -- optional parameters
lampColorSf47          (157),  -- optional parameters
lampColorSf48          (158),  -- optional parameters
lampColorSf49          (159),  -- optional parameters
lampColorSf50          (160),  -- optional parameters
lampColorSf51          (161),  -- optional parameters
lampColorSf52          (162),  -- optional parameters
lampColorSf53          (163),  -- optional parameters
lampColorSf54          (164),  -- optional parameters
lampColorSf55          (165),  -- optional parameters
lampColorSf56          (166),  -- optional parameters
lampColorSf57          (167),  -- optional parameters
lampColorSf58          (168),  -- optional parameters
lampColorSf59          (169),  -- optional parameters
lampColorSf60          (170),  -- optional parameters
lampColorSf61          (171),  -- optional parameters
lampColorSf62          (172),  -- optional parameters
lampColorSf63          (173),  -- optional parameters
lampColorSf64          (174),  -- optional parameters
lampColorSf65          (175),  -- optional parameters
lampColorSf66          (176),  -- optional parameters
lampColorSf67          (177),  -- optional parameters
lampColorSf68          (178),  -- optional parameters
lampColorSf69          (179),  -- optional parameters
lampColorSf70          (180),  -- optional parameters
lampColorSf71          (181),  -- optional parameters
lampColorSf72          (182),  -- optional parameters
lampColorSf73          (183),  -- optional parameters
lampColorSf74          (184),  -- optional parameters
lampColorSf75          (185),  -- optional parameters
lampColorSf76          (186),  -- optional parameters
lampColorSf77          (187),  -- optional parameters
lampColorSf78          (188),  -- optional parameters
lampColorSf79          (189),  -- optional parameters
lampColorSf80          (190),  -- optional parameters
lampColorSf81          (191),  -- optional parameters
lampColorSf82          (192),  -- optional parameters
lampColorSf83          (193),  -- optional parameters
lampColorSf84          (194),  -- optional parameters
lampColorSf85          (195),  -- optional parameters
lampColorSf86          (196),  -- optional parameters
lampColorSf87          (197),  -- optional parameters
lampColorSf88          (198),  -- optional parameters
lampColorSf89          (199),  -- optional parameters
lampColorSf90          (200),  -- optional parameters
lampColorSf91          (201),  -- optional parameters
lampColorSf92          (202),  -- optional parameters
lampColorSf93          (203),  -- optional parameters
lampColorSf94          (204),  -- optional parameters
privateData            (205),  -- optional parameters
```

```

privateDataInAck          (206), -- optional parameters
ackModelMultiStep        (207) } -- misc characteristics

SetMessageWaitingIndicator ::= BIT STRING
{
    deviceForMsg          ( 0), -- optional parameters
    privateData            ( 1), -- optional parameters
    privateDataInAck       ( 2), -- optional parameters
    ackModelMultiStep      ( 3) } -- misc characteristics

SetMicrophoneGain ::= BIT STRING
{
    microphoneGainAbs     ( 0), -- optional parameters
    microphoneGainInc     ( 1), -- optional parameters
    privateData            ( 2), -- optional parameters
    privateDataInAck       ( 3), -- optional parameters
    ackModelMultiStep      ( 4) } -- misc characteristics

SetMicrophoneMute ::= BIT STRING
{
    privateData            ( 0), -- optional parameters
    privateDataInAck       ( 1), -- optional parameters
    ackModelMultiStep      ( 2) } -- misc characteristics

SetRingerStatus ::= BIT STRING
{
    ringerModeRinging      ( 0), -- optional parameters
    ringerModeNotRinging   ( 1), -- optional parameters
    ringVolumeAbs          ( 2), -- optional parameters
    ringVolumeInc          ( 3), -- optional parameters
    privateData             ( 4), -- optional parameters
    privateDataInAck        ( 5), -- optional parameters
    ackModelMultiStep       ( 6) } -- misc characteristics

SetSpeakerMute ::= BIT STRING
{
    privateData            ( 0), -- optional parameters
    privateDataInAck       ( 1), -- optional parameters
    ackModelMultiStep      ( 2) } -- misc characteristics

SetSpeakerVolume ::= BIT STRING
{
    speakerVolumeAbs       ( 0), -- optional parameters
    speakerVolumeInc       ( 1), -- optional parameters
    privateData             ( 2), -- optional parameters
    privateDataInAck        ( 3), -- optional parameters
    ackModelMultiStep       ( 4), -- misc characteristics
    resettedAfterCall      ( 5), -- misc characteristics
    notSettableWhileActive ( 6) } -- misc characteristics

PhysDevEvtsList ::= SEQUENCE
{
    buttonInformation      [ 0] IMPLICIT  ButtonInformation    OPTIONAL,
    buttonPress             [ 1] IMPLICIT  ButtonPressEvent    OPTIONAL,
    displayUpdated          [ 2] IMPLICIT  DisplayUpdated     OPTIONAL,
    hookswitch              [ 3] IMPLICIT  Hookswitch        OPTIONAL,
    lampMode                [ 4] IMPLICIT  LampMode         OPTIONAL,
    messageWaiting          [ 5] IMPLICIT  MessageWaiting    OPTIONAL,
    microphoneGain          [ 6] IMPLICIT  MicrophoneGain   OPTIONAL,
    microphoneMute          [ 7] IMPLICIT  MicrophoneMute   OPTIONAL,
    ringerStatus             [ 8] IMPLICIT  RingerStatus     OPTIONAL,
    speakerMute              [ 9] IMPLICIT  SpeakerMute     OPTIONAL,
    speakerVolume            [10] IMPLICIT  SpeakerVolume    OPTIONAL }

ButtonInformation ::= BIT STRING
{
    buttonLabel             ( 0), -- optional parameters
    buttonAssociatedNumber   ( 1), -- optional parameters

```

```

buttonPressIndicator          ( 2), -- optional parameters
privateData                  ( 3) } -- optional parameters

ButtonPressEvent ::= BIT STRING
{
    buttonLabel              ( 0), -- optional parameters
    buttonAssociatedNumber   ( 1), -- optional parameters
    privateData               ( 2) } -- optional parameters
DisplayUpdated ::= BIT STRING
{
    characterSetASCII         ( 0), -- optional parameters
    characterSetUnicode       ( 1), -- optional parameters
    characterSetProprietary  ( 2), -- optional parameters
    privateData               ( 3) } -- optional parameters

Hookswitch ::= BIT STRING
{
    privateData               ( 0) } -- optional parameters

LampMode ::= BIT STRING
{
    lampModeBrokenFlutter    ( 0), -- optional parameters
    lampModeFlutter           ( 1), -- optional parameters
    lampModeOff                ( 2), -- optional parameters
    lampModeSteady             ( 3), -- optional parameters
    lampModeWink                ( 4), -- optional parameters
    lampModeReserved            ( 5), -- optional parameters
    lampModeSf0                 ( 6), -- optional parameters
    lampModeSf1                 ( 7), -- optional parameters
    lampModeSf2                 ( 8), -- optional parameters
    lampModeSf3                 ( 9), -- optional parameters
    lampModeSf4                 ( 10), -- optional parameters
    lampModeSf5                 ( 11), -- optional parameters
    lampModeSf6                 ( 12), -- optional parameters
    lampModeSf7                 ( 13), -- optional parameters
    lampModeSf8                 ( 14), -- optional parameters
    lampModeSf9                 ( 15), -- optional parameters
    lampModeSf10                ( 16), -- optional parameters
    lampModeSf11                ( 17), -- optional parameters
    lampModeSf12                ( 18), -- optional parameters
    lampModeSf13                ( 19), -- optional parameters
    lampModeSf14                ( 20), -- optional parameters
    lampModeSf15                ( 21), -- optional parameters
    lampModeSf16                ( 22), -- optional parameters
    lampModeSf17                ( 23), -- optional parameters
    lampModeSf18                ( 24), -- optional parameters
    lampModeSf19                ( 25), -- optional parameters
    lampModeSf20                ( 26), -- optional parameters
    lampModeSf21                ( 27), -- optional parameters
    lampModeSf22                ( 28), -- optional parameters
    lampModeSf23                ( 29), -- optional parameters
    lampModeSf24                ( 30), -- optional parameters
    lampModeSf25                ( 31), -- optional parameters
    lampModeSf26                ( 32), -- optional parameters
    lampModeSf27                ( 33), -- optional parameters
    lampModeSf28                ( 34), -- optional parameters
    lampModeSf29                ( 35), -- optional parameters
    lampModeSf30                ( 36), -- optional parameters
    lampModeSf31                ( 37), -- optional parameters
    lampModeSf32                ( 38), -- optional parameters
    lampModeSf33                ( 39), -- optional parameters
    lampModeSf34                ( 40), -- optional parameters
    lampModeSf35                ( 41), -- optional parameters
    lampModeSf36                ( 42), -- optional parameters

```

```

lampModeSf37          ( 43), -- optional parameters
lampModeSf38          ( 44), -- optional parameters
lampModeSf39          ( 45), -- optional parameters
lampModeSf40          ( 46), -- optional parameters
lampModeSf41          ( 47), -- optional parameters
lampModeSf42          ( 48), -- optional parameters
lampModeSf43          ( 49), -- optional parameters
lampModeSf44          ( 50), -- optional parameters
lampModeSf45          ( 51), -- optional parameters
lampModeSf46          ( 52), -- optional parameters
lampModeSf47          ( 53), -- optional parameters
lampModeSf48          ( 54), -- optional parameters
lampModeSf49          ( 55), -- optional parameters
lampModeSf50          ( 56), -- optional parameters
lampModeSf51          ( 57), -- optional parameters
lampModeSf52          ( 58), -- optional parameters
lampModeSf53          ( 59), -- optional parameters
lampModeSf54          ( 60), -- optional parameters
lampModeSf55          ( 61), -- optional parameters
lampModeSf56          ( 62), -- optional parameters
lampModeSf57          ( 63), -- optional parameters
lampModeSf58          ( 64), -- optional parameters
lampModeSf59          ( 65), -- optional parameters
lampModeSf60          ( 66), -- optional parameters
lampModeSf61          ( 67), -- optional parameters
lampModeSf62          ( 68), -- optional parameters
lampModeSf63          ( 69), -- optional parameters
lampModeSf64          ( 70), -- optional parameters
lampModeSf65          ( 71), -- optional parameters
lampModeSf66          ( 72), -- optional parameters
lampModeSf67          ( 73), -- optional parameters
lampModeSf68          ( 74), -- optional parameters
lampModeSf69          ( 75), -- optional parameters
lampModeSf70          ( 76), -- optional parameters
lampModeSf71          ( 77), -- optional parameters
lampModeSf72          ( 78), -- optional parameters
lampModeSf73          ( 79), -- optional parameters
lampModeSf74          ( 80), -- optional parameters
lampModeSf75          ( 81), -- optional parameters
lampModeSf76          ( 82), -- optional parameters
lampModeSf77          ( 83), -- optional parameters
lampModeSf78          ( 84), -- optional parameters
lampModeSf79          ( 85), -- optional parameters
lampModeSf80          ( 86), -- optional parameters
lampModeSf81          ( 87), -- optional parameters
lampModeSf82          ( 88), -- optional parameters
lampModeSf83          ( 89), -- optional parameters
lampModeSf84          ( 90), -- optional parameters
lampModeSf85          ( 91), -- optional parameters
lampModeSf86          ( 92), -- optional parameters
lampModeSf87          ( 93), -- optional parameters
lampModeSf88          ( 94), -- optional parameters
lampModeSf89          ( 95), -- optional parameters
lampModeSf90          ( 96), -- optional parameters
lampModeSf91          ( 97), -- optional parameters
lampModeSf92          ( 98), -- optional parameters
lampModeSf93          ( 99), -- optional parameters
lampModeSf94          (100), -- optional parameters
lampBrightnessNormal  (101), -- optional parameters
lampBrightnessDim     (102), -- optional parameters

```

| | |
|----------------------|-------------------------------|
| lampBrightnessBright | (103), -- optional parameters |
| lampColorNoColor | (104), -- optional parameters |
| lampColorRed | (105), -- optional parameters |
| lampColorYellow | (106), -- optional parameters |
| lampColorGreen | (107), -- optional parameters |
| lampColorBlue | (108), -- optional parameters |
| lampColorReserved | (109), -- optional parameters |
| lampColorSf0 | (110), -- optional parameters |
| lampColorSf1 | (111), -- optional parameters |
| lampColorSf2 | (112), -- optional parameters |
| lampColorSf3 | (113), -- optional parameters |
| lampColorSf4 | (114), -- optional parameters |
| lampColorSf5 | (115), -- optional parameters |
| lampColorSf6 | (116), -- optional parameters |
| lampColorSf7 | (117), -- optional parameters |
| lampColorSf8 | (118), -- optional parameters |
| lampColorSf9 | (119), -- optional parameters |
| lampColorSf10 | (120), -- optional parameters |
| lampColorSf11 | (121), -- optional parameters |
| lampColorSf12 | (122), -- optional parameters |
| lampColorSf13 | (123), -- optional parameters |
| lampColorSf14 | (124), -- optional parameters |
| lampColorSf15 | (125), -- optional parameters |
| lampColorSf16 | (126), -- optional parameters |
| lampColorSf17 | (127), -- optional parameters |
| lampColorSf18 | (128), -- optional parameters |
| lampColorSf19 | (129), -- optional parameters |
| lampColorSf20 | (130), -- optional parameters |
| lampColorSf21 | (131), -- optional parameters |
| lampColorSf22 | (132), -- optional parameters |
| lampColorSf23 | (133), -- optional parameters |
| lampColorSf24 | (134), -- optional parameters |
| lampColorSf25 | (135), -- optional parameters |
| lampColorSf26 | (136), -- optional parameters |
| lampColorSf27 | (137), -- optional parameters |
| lampColorSf28 | (138), -- optional parameters |
| lampColorSf29 | (139), -- optional parameters |
| lampColorSf30 | (140), -- optional parameters |
| lampColorSf31 | (141), -- optional parameters |
| lampColorSf32 | (142), -- optional parameters |
| lampColorSf33 | (143), -- optional parameters |
| lampColorSf34 | (144), -- optional parameters |
| lampColorSf35 | (145), -- optional parameters |
| lampColorSf36 | (146), -- optional parameters |
| lampColorSf37 | (147), -- optional parameters |
| lampColorSf38 | (148), -- optional parameters |
| lampColorSf39 | (149), -- optional parameters |
| lampColorSf40 | (150), -- optional parameters |
| lampColorSf41 | (151), -- optional parameters |
| lampColorSf42 | (152), -- optional parameters |
| lampColorSf43 | (153), -- optional parameters |
| lampColorSf44 | (154), -- optional parameters |
| lampColorSf45 | (155), -- optional parameters |
| lampColorSf46 | (156), -- optional parameters |
| lampColorSf47 | (157), -- optional parameters |
| lampColorSf48 | (158), -- optional parameters |
| lampColorSf49 | (159), -- optional parameters |
| lampColorSf50 | (160), -- optional parameters |
| lampColorSf51 | (161), -- optional parameters |
| lampColorSf52 | (162), -- optional parameters |

```

lampColorSf53          (163), -- optional parameters
lampColorSf54          (164), -- optional parameters
lampColorSf55          (165), -- optional parameters
lampColorSf56          (166), -- optional parameters
lampColorSf57          (167), -- optional parameters
lampColorSf58          (168), -- optional parameters
lampColorSf59          (169), -- optional parameters
lampColorSf60          (170), -- optional parameters
lampColorSf61          (171), -- optional parameters
lampColorSf62          (172), -- optional parameters
lampColorSf63          (173), -- optional parameters
lampColorSf64          (174), -- optional parameters
lampColorSf65          (175), -- optional parameters
lampColorSf66          (176), -- optional parameters
lampColorSf67          (177), -- optional parameters
lampColorSf68          (178), -- optional parameters
lampColorSf69          (179), -- optional parameters
lampColorSf70          (180), -- optional parameters
lampColorSf71          (181), -- optional parameters
lampColorSf72          (182), -- optional parameters
lampColorSf73          (183), -- optional parameters
lampColorSf74          (184), -- optional parameters
lampColorSf75          (185), -- optional parameters
lampColorSf76          (186), -- optional parameters
lampColorSf77          (187), -- optional parameters
lampColorSf78          (188), -- optional parameters
lampColorSf79          (189), -- optional parameters
lampColorSf80          (190), -- optional parameters
lampColorSf81          (191), -- optional parameters
lampColorSf82          (192), -- optional parameters
lampColorSf83          (193), -- optional parameters
lampColorSf84          (194), -- optional parameters
lampColorSf85          (195), -- optional parameters
lampColorSf86          (196), -- optional parameters
lampColorSf87          (197), -- optional parameters
lampColorSf88          (198), -- optional parameters
lampColorSf89          (199), -- optional parameters
lampColorSf90          (200), -- optional parameters
lampColorSf91          (201), -- optional parameters
lampColorSf92          (202), -- optional parameters
lampColorSf93          (203), -- optional parameters
lampColorSf94          (204), -- optional parameters
privateData            (205) } -- optional parameters

MessageWaiting ::= BIT STRING
{
    deviceForMsg        ( 0), -- optional parameters
    privateData         ( 1) } -- optional parameters

MicrophoneGain ::= BIT STRING
{
    microphoneGainAbs   ( 0), -- optional parameters
    microphoneGainInc   ( 1), -- optional parameters
    privateData         ( 2) } -- optional parameters

MicrophoneMute ::= BIT STRING
{
    privateData         ( 0) } -- optional parameters

RingerStatus ::= BIT STRING
{
    ringerModeRinging   ( 0), -- optional parameters
    ringerModeNotRinging ( 1), -- optional parameters
    ringCount           ( 2), -- optional parameters

```

```

ringPattern          ( 3),    -- optional parameters
ringVolumeAbs        ( 4),    -- optional parameters
ringVolumeInc         ( 5),    -- optional parameters
privateData           ( 6) } -- optional parameters

SpeakerMute ::= BIT STRING
{
    privateData          ( 0) } -- optional parameters

SpeakerVolume ::= BIT STRING
{
    speakerVolumeAbs      ( 0),    -- optional parameters
    speakerVolumeInc       ( 1),    -- optional parameters
    privateData            ( 2) } -- optional parameters

LogicalServList ::= SEQUENCE
{
    callBackNonCallRel     [ 0] IMPLICIT CallBackNonCallRel      OPTIONAL,
    callBackMsgNonCallRel   [ 1] IMPLICIT CallBackMsgNonCallRel  OPTIONAL,
    cancelCallBack          [ 2] IMPLICIT CancelCallBack          OPTIONAL,
    cancelCallBackMsg        [ 3] IMPLICIT CancelCallBackMsg      OPTIONAL,
    getAgentState           [ 4] IMPLICIT GetAgentState          OPTIONAL,
    getAutoAnswer            [ 5] IMPLICIT GetAutoAnswer          OPTIONAL,
    getAutoWorkMode          [ 6] IMPLICIT GetAutoWorkMode        OPTIONAL,
    getCallerIDStatus        [ 7] IMPLICIT GetCallerIDStatus      OPTIONAL,
    getCallBack              [19] IMPLICIT GetCallBack             OPTIONAL,
    getDoNotDisturb          [ 8] IMPLICIT GetDoNotDisturb        OPTIONAL,
    getForwarding            [ 9] IMPLICIT GetForwarding          OPTIONAL,
    getLastNumberDialed      [10] IMPLICIT GetLastNumberDialed    OPTIONAL,
    getPresenceState          [20] IMPLICIT GetPresenceState        OPTIONAL,
    getRouteingMode           [11] IMPLICIT GetRouteingMode          OPTIONAL,
    setAgentState             [12] IMPLICIT SetAgentState          OPTIONAL,
    setAutoAnswer              [13] IMPLICIT SetAutoAnswer          OPTIONAL,
    setAutoWorkMode            [14] IMPLICIT SetAutoWorkMode        OPTIONAL,
    setCallerIDStatus          [15] IMPLICIT SetCallerIDStatus      OPTIONAL,
    setDoNotDisturb            [16] IMPLICIT SetDoNotDisturb        OPTIONAL,
    setForwarding              [17] IMPLICIT SetForwarding          OPTIONAL,
    setPresenceState            [21] IMPLICIT SetPresenceState        OPTIONAL,
    setRouteingMode             [18] IMPLICIT SetRouteingMode        OPTIONAL }

CallBackNonCallRel ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck       ( 1),    -- optional parameters
    additionalReqForbidden ( 2),    -- optional parameters
    ackModelMultiStep      ( 3) } -- misc characteristics

CallBackMsgNonCallRel ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck       ( 1),    -- optional parameters
    additionalReqForbidden ( 2),    -- optional parameters
    ackModelMultiStep      ( 3) } -- misc characteristics

CancelCallBack ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck       ( 1),    -- optional parameters
    ackModelMultiStep      ( 2),    -- misc characteristics
    supportsClearing       ( 3) } -- misc characteristics

CancelCallBackMsg ::= BIT STRING
{
    privateData          ( 0),    -- optional parameters
    privateDataInAck       ( 1),    -- optional parameters
    ackModelMultiStep      ( 2),    -- misc characteristics
    supportsClearing       ( 3) } -- misc characteristics

```

```

GetAgentState ::= BIT STRING
{
    acdGroup                                ( 0),    -- optional parameters
    privateData                               ( 1),    -- optional parameters
    agentStateListAgentIDInAck               ( 2),    -- optional parameters
    agentGroupInAck                          ( 3),    -- optional parameters
    pendingAgentStateInAck                  ( 4),    -- optional parameters
    agentStateConditionForcedPauseInAck     ( 5),    -- optional parameters
    agentStateConditionPauseInAck           ( 6),    -- optional parameters
    privateDataInAck                         ( 7) }   -- optional parameters

GetAutoAnswer ::= BIT STRING
{
    privateData                               ( 0),    -- optional parameters
    numberOfRingsInAck                      ( 1),    -- optional parameters
    privateDataInAck                         ( 2) }   -- optional parameters

GetAutoWorkMode ::= BIT STRING
{
    privateData                               ( 0),    -- optional parameters
    autoWorkIntervalInAck                   ( 1),    -- optional parameters
    privateDataInAck                         ( 2) }   -- optional parameters

GetCallerIDStatus ::= BIT STRING
{
    privateData                               ( 0),    -- optional parameters
    privateDataInAck                         ( 1) }   -- optional parameters

GetCallBack ::= BIT STRING
{
    privateData                               ( 0),    -- optional parameters
    privateDataInAck                         ( 1) }   -- optional parameters

GetDoNotDisturb ::= BIT STRING
{
    privateData                               ( 0),    -- optional parameters
    callOriginParameterInAck                ( 1),    -- optional parameters
    callOriginInternInAck                  ( 2),    -- optional parameters
    callOriginExternInAck                 ( 3),    -- optional parameters
    callingDeviceListInAck                 ( 4),    -- optional parameters
    privateDataInAck                         ( 5) }   -- optional parameters

GetForwarding ::= BIT STRING
{
    privateData                               ( 0),    -- optional parameters
    forwardListInAck                        ( 1),    -- optional parameters
    forwardListImmediateInAck              ( 2),    -- optional parameters
    forwardListBusyInAck                   ( 3),    -- optional parameters
    forwardListDNDInAck                   ( 4),    -- optional parameters
    forwardListNoAnsInAck                 ( 5),    -- optional parameters
    forwardListBusyIntInAck                ( 6),    -- optional parameters
    forwardListBusyExtInAck                ( 7),    -- optional parameters
    forwardListDNDIntInAck                ( 8),    -- optional parameters
    forwardListDNDExtInAck                ( 9),    -- optional parameters
    forwardListNoAnsIntInAck              (10),    -- optional parameters
    forwardListNoAnsExtInAck              (11),    -- optional parameters
    forwardListImmIntInAck                (12),    -- optional parameters
    forwardListImmExtInAck                (13),    -- optional parameters
    forwardDNInAck                         (14),    -- optional parameters
    forwardDefaultInAck                   (15),    -- optional parameters
    forwardDefaultTypeAndDNInAck          (16),    -- optional parameters
    forwardDefaultTypeInAck                (17),    -- optional parameters
    forwardDefaultDNInAck                 (18),    -- optional parameters
    ringCountInAck                         (19),    -- optional parameters
    privateDataInAck                         (20) }   -- optional parameters

```

```

GetLastNumberDialed ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    privateDataInAck                         ( 1) } -- optional parameters

GetPresenceState ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    fromTimeInAck                           ( 1), -- optional parameters
    untilTimeInAck                          ( 2), -- optional parameters
    placeInAck                                ( 3), -- optional parameters
    moodInAck                                 ( 4), -- optional parameters
    namedPresenceStateInAck                 ( 5), -- optional parameters
    privateDataInAck                         ( 6) } -- optional parameters

GetRouteingMode ::= BIT STRING
{
    privateData                               ( 0), -- optional parameters
    privateDataInAck                         ( 1) } -- optional parameters

SetAgentState ::= BIT STRING
{
    requestedAgentStateLoggedOn             ( 0), -- optional parameters
    requestedAgentStateLoggedOff            ( 1), -- optional parameters
    requestedAgentStateNotReady            ( 2), -- optional parameters
    requestedAgentStateReady                ( 3), -- optional parameters
    requestedAgentStateWorkingAfterCall   ( 4), -- optional parameters
    agentID                                  ( 5), -- optional parameters
    password                                 ( 6), -- optional parameters
    group                                    ( 7), -- optional parameters
    privateData                             ( 8), -- optional parameters
    pendingAgentStateWorkingAfterCallInAck ( 9), -- optional parameters
    pendingAgentStateNotReadyInAck          (10), -- optional parameters
    pendingAgentStateNullInAck              (11), -- optional parameters
    privateDataInAck                        (12), -- optional parameters
    ackModelMultiStep                      (13), -- misc characteristics
    groupDeviceAllowedInReq                (14), -- misc characteristics
    aCDDeviceAllowedInReq                  (15), -- misc characteristics
    delayTransitionIfBusy                  (16), -- misc characteristics
    delayTransitionIfWorkingAfterCall     (17) } -- misc characteristics

SetAutoAnswer ::= BIT STRING
{
    numberOfRings                            ( 0), -- optional parameters
    privateData                             ( 1), -- optional parameters
    privateDataInAck                         ( 2), -- optional parameters
    ackModelMultiStep                      ( 3) } -- misc characteristics

SetAutoWorkMode ::= BIT STRING
{
    autoWorkInterval                         ( 0), -- optional parameters
    privateData                            ( 1), -- optional parameters
    privateDataInAck                        ( 2), -- optional parameters
    ackModelMultiStep                      ( 3), -- misc characteristics
    groupDeviceAllowedInReq                ( 4), -- misc characteristics
    aCDDeviceAllowedInReq                  ( 5) } -- misc characteristics

SetCallerIDStatus ::= BIT STRING
{
    privateData                            ( 0), -- optional parameters
    privateDataInAck                       ( 1), -- optional parameters
    ackModelMultiStep                     ( 2) } -- misc characteristics

SetDoNotDisturb ::= BIT STRING
{
    callOriginationInternal               ( 0), -- optional parameters
    callOriginationExternal                ( 1), -- optional parameters
    callingDeviceList                     ( 2), -- optional parameters

```

```

privateData                                ( 3),    -- optional parameters
privateDataInAck                            ( 4),    -- optional parameters
ackModelMultiStep                          ( 5) } -- misc characteristics

SetForwarding ::= BIT STRING
{
    forwardingTypeBusy                    ( 0),    -- optional parameters
    forwardingTypeBusyInt                ( 1),    -- optional parameters
    forwardingTypeBusyExt                ( 2),    -- optional parameters
    forwardingTypeDND                   ( 3),    -- optional parameters
    forwardingTypeDNDInt                ( 4),    -- optional parameters
    forwardingTypeDNDExt                ( 5),    -- optional parameters
    forwardingTypeNoAns                 ( 6),    -- optional parameters
    forwardingTypeNoAnsInt              ( 7),    -- optional parameters
    forwardingTypeNoAnsExt              ( 8),    -- optional parameters
    forwardingTypeImmediate             ( 9),    -- optional parameters
    forwardingTypeImmInt                (10),    -- optional parameters
    forwardingTypeImmExt                (11),    -- optional parameters
    forwardDN                           (12),    -- optional parameters
    ringCount                           (13),    -- optional parameters
    privateData                         (14),    -- optional parameters
    privateDataInAck                   (15),    -- optional parameters
    ackModelMultiStep                  (16),    -- misc characteristics
    ringDuration                        (17) } -- optional parameters

SetPresenceState ::= BIT STRING
{
    fromTime                            ( 0),    -- optional parameters
    untilTime                           ( 1),    -- optional parameters
    place                               ( 2),    -- optional parameters
    mood                                ( 3),    -- optional parameters
    namedPresenceState                 ( 4),    -- optional parameters
    privateData                         ( 5),    -- optional parameters
    privateDataInAck                   ( 6),    -- optional parameters
    ackModelMultiStep                  ( 7) } -- misc characteristics

SetRouteingMode ::= BIT STRING
{
    privateData                         ( 0),    -- optional parameters
    privateDataInAck                   ( 1),    -- optional parameters
    ackModelMultiStep                  ( 2) } -- misc characteristics

LogicalEvtsList ::= SEQUENCE
{
    agentBusy                           [ 0] IMPLICIT AgentBusy           OPTIONAL,
    agentLoggedOff                     [ 1] IMPLICIT AgentLoggedOff        OPTIONAL,
    agentLoggedOn                      [ 2] IMPLICIT AgentLoggedOn         OPTIONAL,
    agentNotReady                     [ 3] IMPLICIT AgentNotReady        OPTIONAL,
    agentReady                          [ 4] IMPLICIT AgentReady            OPTIONAL,
    agentWorkingAfterCall             [ 5] IMPLICIT AgentWorkingAfterCall OPTIONAL,
    autoAnswer                          [ 6] IMPLICIT AutoAnswer           OPTIONAL,
    autoWorkMode                       [ 7] IMPLICIT AutoWorkMode          OPTIONAL,
    callBack                           [ 8] IMPLICITCallBackEvent        OPTIONAL,
    callBackMessage                    [ 9] IMPLICITCallBackMessageEvent OPTIONAL,
    callerIDStatus                     [10] IMPLICIT CallerIDStatus        OPTIONAL,
    doNotDisturb                       [11] IMPLICIT DoNotDisturb          OPTIONAL,
    forwarding                          [12] IMPLICIT Forwarding           OPTIONAL,
    presenceState                     [14] IMPLICIT PresenceStateEvent    OPTIONAL,
    routeingMode                       [13] IMPLICIT RouteingMode          OPTIONAL }

AgentBusy ::= BIT STRING
{
    agentID                            ( 0),    -- optional parameters
    acdGroup                           ( 1),    -- optional parameters
    pendingAgentStateWorkingAfterCall ( 2),    -- optional parameters

```

```

pendingAgentStateNotReady          ( 3),    -- optional parameters
pendingAgentStateReady            ( 4),    -- optional parameters
pendingAgentStateNull             ( 5),    -- optional parameters
cause                            ( 6),    -- optional parameters
privateData                       ( 7) }   -- optional parameters

AgentLoggedOff ::= BIT STRING
{
  agentID                         ( 0),    -- optional parameters
  acdGroup                        ( 1),    -- optional parameters
  agentPassword                   ( 2),    -- optional parameters
  cause                           ( 3),    -- optional parameters
  privateData                     ( 4) }   -- optional parameters

AgentLoggedOn ::= BIT STRING
{
  agentID                         ( 0),    -- optional parameters
  acdGroup                        ( 1),    -- optional parameters
  agentPassword                   ( 2),    -- optional parameters
  cause                           ( 3),    -- optional parameters
  privateData                     ( 4) }   -- optional parameters

AgentNotReady ::= BIT STRING
{
  agentID                         ( 0),    -- optional parameters
  acdGroup                        ( 1),    -- optional parameters
  cause                           ( 2),    -- optional parameters
  privateData                     ( 3) }   -- optional parameters

AgentReady ::= BIT STRING
{
  agentID                         ( 0),    -- optional parameters
  acdGroup                        ( 1),    -- optional parameters
  cause                           ( 2),    -- optional parameters
  privateData                     ( 3) }   -- optional parameters

AgentWorkingAfterCall ::= BIT STRING
{
  agentID                         ( 0),    -- optional parameters
  acdGroup                        ( 1),    -- optional parameters
  pendingAgentStateNotReady       ( 2),    -- optional parameters
  pendingAgentStateReady          ( 3),    -- optional parameters
  pendingAgentStateNull           ( 4),    -- optional parameters
  cause                           ( 5),    -- optional parameters
  privateData                     ( 6) }   -- optional parameters

AutoAnswer ::= BIT STRING
{
  numberofRings                  ( 0),    -- optional parameters
  privateData                     ( 1) }   -- optional parameters

AutoWorkMode ::= BIT STRING
{
  privateData                     ( 0) }   -- optional parameters

CallBackEvent ::= BIT STRING
{
  privateData                     ( 0) }   -- optional parameters

CallBackMessageEvent ::= BIT STRING
{
  privateData                     ( 0) }   -- optional parameters

CallerIDStatus ::= BIT STRING
{
  privateData                     ( 0) }   -- optional parameters

DoNotDisturb ::= BIT STRING
{
  callOriginationParameter      ( 0),    -- optional parameters
  callOriginationInternal        ( 1),    -- optional parameters

```

```

callOriginationExternal          ( 2),    -- optional parameters
callingDeviceList                ( 3),    -- optional parameters
privateData                      ( 4) } -- optional parameters

Forwarding ::= BIT STRING
{
    forwardingTypeBusy           ( 0),
    forwardingTypeBusyInt        ( 1),
    forwardingTypeBusyExt        ( 2),
    forwardingTypeDND            ( 3),
    forwardingTypeDNDInt         ( 4),
    forwardingTypeDNDExt         ( 5),
    forwardingTypeNoAns          ( 6),
    forwardingTypeNoAnsInt       ( 7),
    forwardingTypeNoAnsExt       ( 8),
    forwardingTypeImmediate       ( 9),
    forwardingTypeImmInt         (10),
    forwardingTypeImmExt         (11),
    forwardTo                     (12),
    forwardDefaultTypeAndDN      (13),
    forwardDefaultType           (14),
    forwardDefaultDN             (15),
    ringCount                     (16),
    privateData                   (17),
    ringDuration                  (18) }

PresenceStateEvent ::= BIT STRING
{
    fromTime                     ( 0),    -- optional parameters
    untilTime                     ( 1),    -- optional parameters
    place                         ( 2),    -- optional parameters
    mood                          ( 3),    -- optional parameters
    namedPresenceState            ( 4),    -- optional parameters
    privateData                   ( 5) } -- optional parameters

RouteingMode ::= BIT STRING
{
    privateData                  ( 0) } -- optional parameters

DeviceMaintEvtsList ::= SEQUENCE
{
    backInService                [0] IMPLICIT   BackInService    OPTIONAL,
    deviceCapsChanged             [1] IMPLICIT   DeviceCapsChanged OPTIONAL,
    outOfService                 [2] IMPLICIT   OutOfService     OPTIONAL,
    partiallyInService            [3] IMPLICIT   PartiallyInService OPTIONAL }

BackInService ::= BIT STRING
{
    cause                        ( 0),    -- optional parameters
    privateData                  ( 1) } -- optional parameters

DeviceCapsChanged ::= BIT STRING
{
    cause                        ( 0),    -- optional parameters
    privateData                  ( 1) } -- optional parameters

OutOfService ::= BIT STRING
{
    cause                        ( 0),    -- optional parameters
    privateData                  ( 1) } -- optional parameters

PartiallyInService ::= BIT STRING
{
    cause                        ( 0),    -- optional parameters
    privateData                  ( 1) } -- optional parameters

IOServicesServList ::= SEQUENCE
{
    ioRegister                   [ 0] IMPLICIT   IoRegister      OPTIONAL,

```

```
ioRegisterAbort          [ 1] IMPLICIT    IoRegisterAbort      OPTIONAL,
ioRegisterCancel         [ 2] IMPLICIT    IoRegisterCancel     OPTIONAL,
dataPathResumed          [ 3] IMPLICIT    DataPathResumed    OPTIONAL,
dataPathSuspended         [ 4] IMPLICIT    DataPathSuspended  OPTIONAL,
fastData                 [ 5] IMPLICIT    FastData           OPTIONAL,
resumeDataPath           [ 6] IMPLICIT    ResumeDataPath     OPTIONAL,
sendBroadcastData        [ 7] IMPLICIT    SendBroadcastData OPTIONAL,
sendData                 [ 8] IMPLICIT    SendData           OPTIONAL,
sendMulticastData        [ 9] IMPLICIT    SendMulticastData OPTIONAL,
startDataPath            [10] IMPLICIT    StartDataPath     OPTIONAL,
stopDataPath             [11] IMPLICIT    StopDataPath      OPTIONAL,
suspendDataPath          [12] IMPLICIT    SuspendDataPath   OPTIONAL }
```

```
IoRegister ::= BIT STRING
{
    ioDevice                  ( 0),    -- optional parameters
    privateData                ( 1),    -- optional parameters
    privateDataInAck           ( 2),    -- optional parameters
    allIODevices              ( 3) } -- misc characteristics
```

```
IoRegisterAbort ::= BIT STRING
{
    privateData                ( 0) } -- optional parameters
```

```
IoRegisterCancel ::= BIT STRING
{
    privateData                ( 0),    -- optional parameters
    privateDataInAck           ( 1) } -- optional parameters
```

```
DataPathResumed ::= BIT STRING
{
    privateData                ( 0),    -- optional parameters
    privateDataInAck           ( 1) } -- optional parameters
```

```
DataPathSuspended ::= BIT STRING
{
    privateData                ( 0),    -- optional parameters
    privateDataInAck           ( 1) } -- optional parameters
```

```
FastData ::= BIT STRING
{
    objectDevice               ( 0),    -- optional parameters
    objectCall                 ( 1),    -- optional parameters
    dataPathTypeText           ( 2),    -- optional parameters
    dataPathTypeVoice           ( 3),    -- optional parameters
    displayAttribPhyBaseRowNumber ( 4),   -- optional parameters
    displayAttribPhyBaseColumnNumber ( 5),  -- optional parameters
    displayAttribOffset         ( 6),    -- optional parameters
    privateData                 ( 7),    -- optional parameters
    privateDataInAck            ( 8),    -- optional parameters
    supportsModifyingPosition  ( 9) } -- misc characteristics
```

```
ResumeDataPath ::= BIT STRING
{
    privateData                ( 0),    -- optional parameters
    privateDataInAck            ( 1),    -- optional parameters
    sendsDataPathResumed        ( 2) } -- misc characteristics
```

```
SendBroadcastData ::= BIT STRING
{
    privateData                ( 0),    -- optional parameters
    dataPathTypeText           ( 1),    -- optional parameters
    dataPathTypeVoice           ( 2),    -- optional parameters
    displayAttribPhyBaseRowNumber ( 3),  -- optional parameters
    displayAttribPhyBaseColumnNumber ( 4), -- optional parameters
    displayAttribOffset         ( 5),    -- optional parameters
    privateDataInAck            ( 6),    -- optional parameters
    supportsModifyingPosition  ( 7) } -- misc characteristics
```

```

SendData ::= BIT STRING
{
    displayAttribPhyBaseRowNumber          ( 0), -- optional parameters
    displayAttribPhyBaseColumnNumber        ( 1), -- optional parameters
    displayAttribOffset                   ( 2), -- optional parameters
    ioCauseTerminationCharReceived      ( 3), -- optional parameters
    ioCauseCharCountReached             ( 4), -- optional parameters
    ioCauseTimeout                      ( 5), -- optional parameters
    ioCauseSfTerminated                ( 6), -- optional parameters
    privateData                         ( 7), -- optional parameters
    privateDataInAck                   ( 8), -- optional parameters
    supportsModifyingPosition          ( 9) } -- misc characteristics

SendMulticastData ::= BIT STRING
{
    ioData                            ( 0), -- optional parameters
    displayAttribPhyBaseRowNumber        ( 1), -- optional parameters
    displayAttribPhyBaseColumnNumber      ( 2), -- optional parameters
    displayAttribOffset                  ( 3), -- optional parameters
    privateData                        ( 4), -- optional parameters
    privateDataInAck                  ( 5), -- optional parameters
    supportsModifyingPosition          ( 6) } -- misc characteristics

StartDataPath ::= BIT STRING
{
    objectDevice                      ( 0), -- optional parameters
    objectCall                         ( 1), -- optional parameters
    dataPathDirectionCfToObject        ( 2), -- optional parameters
    dataPathDirectionObjectToCf        ( 3), -- optional parameters
    dataPathDirectionBidirectional     ( 4), -- optional parameters
    dataPathTypeText                  ( 5), -- optional parameters
    dataPathTypeVoice                 ( 6), -- optional parameters
    numberCharsToCollect              ( 7), -- optional parameters
    terminationChar                   ( 8), -- optional parameters
    timeout                           ( 9), -- optional parameters
    privateData                        (10), -- optional parameters
    numberCharsToCollectInAck         (11), -- optional parameters
    terminationCharInAck              (12), -- optional parameters
    timeoutInAck                     (13), -- optional parameters
    privateDataInAck                 (14) } -- optional parameters

StopDataPath ::= BIT STRING
{
    privateData                        ( 0), -- optional parameters
    privateDataInAck                  ( 1) } -- optional parameters

SuspendDataPath ::= BIT STRING
{
    privateData                        ( 0), -- optional parameters
    privateDataInAck                  ( 1) } -- optional parameters

DataCollectionServList ::= SEQUENCE
{
    dataCollected                     [ 0] IMPLICIT DataCollected           OPTIONAL,
    dataCollectionResumed             [ 1] IMPLICIT DataCollectionResumed   OPTIONAL,
    dataCollectionSuspended          [ 2] IMPLICIT DataCollectionSuspended  OPTIONAL,
    resumeDataCollection             [ 3] IMPLICIT ResumeDataCollection   OPTIONAL,
    startDataCollection              [ 4] IMPLICIT StartDataCollection    OPTIONAL,
    stopDataCollection               [ 5] IMPLICIT StopDataCollection     OPTIONAL,
    suspendDataCollection            [ 6] IMPLICIT SuspendDataCollection  OPTIONAL }

DataCollected ::= BIT STRING
{
    digitsDuration                   ( 0), -- optional parameters
    digitsPauseDuration              ( 1), -- optional parameters
    toneDetectedBeep                 ( 2), -- optional parameters

```

```

toneDetectedBilling          ( 3),    -- optional parameters
toneDetectedBusy             ( 4),    -- optional parameters
toneDetectedCarrier          ( 5),    -- optional parameters
toneDetectedConfirmation     ( 6),    -- optional parameters
toneDetectedDial             ( 7),    -- optional parameters
toneDetectedFaxCNG           ( 8),    -- optional parameters
toneDetectedHold              ( 9),    -- optional parameters
toneDetectedHowler            (10),   -- optional parameters
toneDetectedIntrusion         (11),   -- optional parameters
toneDetectedModemCNG          (12),   -- optional parameters
toneDetectedPark              (13),   -- optional parameters
toneDetectedRecordWarning     (14),   -- optional parameters
toneDetectedReorder            (15),   -- optional parameters
toneDetectedRingback           (16),   -- optional parameters
toneDetectedSilence            (17),   -- optional parameters
toneDetectedSitVC              (18),   -- optional parameters
toneDetectedSitIC              (19),   -- optional parameters
toneDetectedSitRO              (20),   -- optional parameters
toneDetectedSitNC              (21),   -- optional parameters
toneDetectedSf0                (22),   -- optional parameters
toneDetectedSf1                (23),   -- optional parameters
toneDetectedSf2                (24),   -- optional parameters
toneDetectedSf3                (25),   -- optional parameters
toneDetectedSf4                (26),   -- optional parameters
toneDetectedSf5                (27),   -- optional parameters
toneDetectedSf6                (28),   -- optional parameters
toneDetectedSf7                (29),   -- optional parameters
toneDetectedSf8                (30),   -- optional parameters
toneDetectedSf9                (31),   -- optional parameters
toneDetectedSf10               (32),   -- optional parameters
toneDetectedOther               (33),   -- optional parameters
toneFrequency                  (34),   -- optional parameters
toneDuration                   (35),   -- optional parameters
tonePauseDuration              (36),   -- optional parameters
connectionInfo                 (37),   -- optional parameters
dcollCauseFlushCharReceived    (38),   -- optional parameters
dcollCauseCharCountReached     (39),   -- optional parameters
dcollCauseTimeout              (40),   -- optional parameters
dcollCauseSFTerminated         (41),   -- optional parameters
privateData                     (42),   -- optional parameters
privateDataInAck                (43) } -- optional parameters

DataCollectionResumed ::= BIT STRING
{
    privateData                  ( 0),   -- optional parameters
    privateDataInAck              ( 1) } -- optional parameters

DataCollectionSuspended ::= BIT STRING
{
    privateData                  ( 0),   -- optional parameters
    privateDataInAck              ( 1) } -- optional parameters

ResumeDataCollection ::= BIT STRING
{
    privateData                  ( 0),   -- optional parameters
    privateDataInAck              ( 1) } -- optional parameters

StartDataCollection ::= BIT STRING
{
    objectDevice                  ( 0),   -- optional parameters
    objectCall                     ( 1),   -- optional parameters
    dataCollectionTypeDigits       ( 2),   -- optional parameters
    dataCollectionTypeTones         ( 3),   -- optional parameters
    digitsReportingCriteriaNumChars ( 4),   -- optional parameters

```

```

digitsReportingCriteriaFlushChar      ( 5),    -- optional parameters
digitsReportingCriteriaTimeout       ( 6),    -- optional parameters
privateData                         ( 7),    -- optional parameters
privateDataInAck                    ( 8) } -- optional parameters

StopDataCollection ::= BIT STRING
{
    privateData                      ( 0),    -- optional parameters
    privateDataInAck                 ( 1) } -- optional parameters

SuspendDataCollection ::= BIT STRING
{
    privateData                      ( 0),    -- optional parameters
    privateDataInAck                 ( 1) } -- optional parameters

VoiceUnitServList ::= SEQUENCE
{
    activate                         [12] IMPLICIT Activate           OPTIONAL,
    clear                            [13] IMPLICIT Clear             OPTIONAL,
    deactivate                       [14] IMPLICIT Deactivate         OPTIONAL,
    concatenateMsg                  [ 0] IMPLICIT ConcatenateMsg   OPTIONAL,
    deleteMsg                        [ 1] IMPLICIT DeleteMsg          OPTIONAL,
    queue                            [15] IMPLICIT Queue            OPTIONAL,
    playMsg                           [ 2] IMPLICIT PlayMsg           OPTIONAL,
    queryVoiceAttrib                [ 3] IMPLICIT QueryVoiceAttrib  OPTIONAL,
    recordMsg                        [ 4] IMPLICIT RecordMsg         OPTIONAL,
    reposition                        [ 5] IMPLICIT Reposition        OPTIONAL,
    resume                            [ 6] IMPLICIT Resume           OPTIONAL,
    review                            [ 7] IMPLICIT Review           OPTIONAL,
    start                             [16] IMPLICIT Start            OPTIONAL,
    setVoiceAttrib                  [ 8] IMPLICIT SetVoiceAttrib   OPTIONAL,
    stop                             [ 9] IMPLICIT Stop             OPTIONAL,
    suspend                           [10] IMPLICIT Suspend          OPTIONAL,
    synthesizeMsg                   [11] IMPLICIT SynthesizeMsg    OPTIONAL }

Activate ::= BIT STRING
{
    resource                          ( 0),    -- optional parameters
    grammarName                      ( 1),    -- optional parameters
    privateData                       ( 2),    -- optional parameters
    privateDataInAck                 ( 3) } -- optional parameters

Clear ::= BIT STRING
{
    resource                          ( 0),    -- optional parameters
    privateData                      ( 1),    -- optional parameters
    privateDataInAck                 ( 2) } -- optional parameters

ConcatenateMsg ::= BIT STRING
{
    privateData                      ( 0),    -- optional parameters
    privateDataInAck                 ( 1) } -- optional parameters

Deactivate ::= BIT STRING
{
    resource                          ( 0),    -- optional parameters
    grammarName                      ( 1),    -- optional parameters
    privateData                       ( 2),    -- optional parameters
    privateDataInAck                 ( 3) } -- optional parameters

DeleteMsg ::= BIT STRING
{
    privateData                      ( 0),    -- optional parameters
    privateDataInAck                 ( 1) } -- optional parameters

PlayMsg ::= BIT STRING
{
    duration                          ( 0),    -- optional parameters
    terminationParameter             ( 1),    -- optional parameters

```

```

terminationDurationExceeded           ( 2), -- optional parameters
terminationDTMFDigitDetected        ( 3), -- optional parameters
terminationEndOfSpeechDetected      ( 4), -- optional parameters
terminationSpeech                   ( 5), -- optional parameters
privateData                         ( 6), -- optional parameters
privateDataInAck                    ( 7), -- optional parameters
multipleMsgsSimultaneously         ( 8) } -- miscellaneous characteristics

QueryVoiceAttrib ::= BIT STRING
{
    messageToQuery
    resource
    attribToQueryEncodingAlgorithm
    attribToQuerySamplingRate
    attribToQueryDuration
    attribToQueryFilename
    attribToQueryCurrentPosition
    attribToQueryCurrentSpeed
    attribToQueryCurrentVolume
    attribToQueryCurrentLevel
    attribToQueryCurrentState
    attribToQueryGrammars
    attribToQueryLanguage
    attribToQueryMode
    attribToQueryRetainAudio
    attribToQuerySilenceTimeout
    attribToQueryMaxTimeout
    attribToQueryBabbleTimeout
    attribToQueryEndSilence
    attribToQueryRejectionThreshold
    attribToQueryAutoInterruptable
    attribToQueryInnerXML
    attribToQueryInterdigitTimeout
    attribToQueryPreflush
    connection
    duration
    terminationParameter
    terminationDurationExceeded
    terminationDTMFDigitDetected
    terminationEndOfSpeechDetected
    terminationSpeech
    privateData
    attribInAckEncodingAlgorithmADPCM6K
    attribInAckEncodingAlgorithmADPCM8K
    attribInAckEncodingAlgorithmMuLawPCM6K
    attribInAckEncodingAlgorithmALawPCM6K
    attribInAckSamplingRate
    attribInAckDuration
    attribInAckFilename
    attribInAckCurrentPosition
    attribInAckCurrentSpeed
    attribInAckCurrentVolumeAbs
    attribInAckCurrentGain
    attribInAckCurrentState
    privateDataInAck
}

Queue ::= BIT STRING
{
    message
    resource
    text
    privateData
}

```

```

privateDataInAck                                ( 4 ) } -- optional parameters

RecordMsg ::= BIT STRING
{
    resource                               (13),   -- optional parameters
    samplingRate                            ( 0),   -- optional parameters
    encodingAlgorithmADPCM6K              ( 1),   -- optional parameters
    encodingAlgorithmADPCM8K              ( 2),   -- optional parameters
    encodingAlgorithmMuLawPCM6K            ( 3),   -- optional parameters
    encodingAlgorithmALawPCM6K             ( 4),   -- optional parameters
    maxDuration                             ( 5),   -- optional parameters
    terminationParameter                   ( 6),   -- optional parameters
    terminationDurationExceeded           ( 7),   -- optional parameters
    terminationDTMFDigitDetected         ( 8),   -- optional parameters
    terminationEndOfDataDetected          ( 9),   -- optional parameters
    terminationSpeechDetected            (10),   -- optional parameters
    privateData                             (11),   -- optional parameters
    privateDataInAck                        (12) } -- optional parameters

Reposition ::= BIT STRING
{
    periodOfRepositionStartOfMsg           ( 0),   -- optional parameters
    periodOfRepositionEndOfMsg             ( 1),   -- optional parameters
    periodOfRepositionRelativePointer     ( 2),   -- optional parameters
    msgToReposition                         ( 3),   -- optional parameters
    privateData                             ( 4),   -- optional parameters
    privateDataInAck                        ( 5) } -- optional parameters

Resume ::= BIT STRING
{
    msgToResume                            ( 0),   -- optional parameters
    resource                               ( 4),   -- optional parameters
    duration                               ( 1),   -- optional parameters
    privateData                            ( 2),   -- optional parameters
    privateDataInAck                       ( 3) } -- optional parameters

Review ::= BIT STRING
{
    msgToReview                            ( 4),   -- optional parameters
    resource                               ( 5),   -- optional parameters
    periodToResumeStartOfMsg              ( 0),   -- optional parameters
    periodToResumeLengthOfReview          ( 1),   -- optional parameters
    privateData                            ( 2),   -- optional parameters
    privateDataInAck                       ( 3) } -- optional parameters

SetVoiceAttrib ::= BIT STRING
{
    resource                               ( 9),   -- optional parameters
    currentSpeed                           ( 0),   -- optional parameters
    currentVolumeAbs                      ( 1),   -- optional parameters
    currentVolumeInc                      ( 2),   -- optional parameters
    grammars                               (10),   -- optional parameters
    language                               (11),   -- optional parameters
    mode                                    (12),   -- optional parameters
    retainAudio                            (13),   -- optional parameters
    silenceTimeout                         (14),   -- optional parameters
    maxTimeout                             (15),   -- optional parameters
    babbleTimeout                          (16),   -- optional parameters
    endSilence                             (17),   -- optional parameters
    rejectionThreshold                     (18),   -- optional parameters
    autoInterruptable                     (19),   -- optional parameters
    innerXML                               (20),   -- optional parameters
    interdigitTimeout                     (21),   -- optional parameters
    preflush                              (22),   -- optional parameters
    periodToResumeStartOfMsg              ( 3),   -- optional parameters

```

```

periodToResumeLengthOfReview          ( 4),    -- optional parameters
currentGain                          ( 5),    -- optional parameters
message                             ( 6),    -- optional parameters
privateData                          ( 7),    -- optional parameters
privateDataInAck                     ( 8) } -- optional parameters

Start ::= BIT STRING
{
    resource                         ( 0),    -- optional parameters
    text                             ( 1),    -- optional parameters
    privateData                      ( 2),    -- optional parameters
    privateDataInAck                 ( 3) } -- optional parameters

Stop ::= BIT STRING
{
    msgToBeStopped                  ( 2),    -- optional parameters
    resource                         ( 3),    -- optional parameters
    privateData                      ( 0),    -- optional parameters
    privateDataInAck                 ( 1) } -- optional parameters

Suspend ::= BIT STRING
{
    message                          ( 0),    -- optional parameters
    resource                         ( 3),    -- optional parameters
    privateData                      ( 1),    -- optional parameters
    privateDataInAck                 ( 2) } -- optional parameters

SynthesizeMsg ::= BIT STRING
{
    genderMale                       ( 0),    -- optional parameters
    genderFemale                     ( 1),    -- optional parameters
    privateData                      ( 2),    -- optional parameters
    privateDataInAck                 ( 3) } -- optional parameters

VoiceUnitEvtsList ::= SEQUENCE
{
    bookmarkReached                [ 7] IMPLICIT BookmarkReached      OPTIONAL,
    completed                      [ 8] IMPLICIT Completed        OPTIONAL,
    dtmfDetected                   [ 9] IMPLICIT DtmfDetected       OPTIONAL,
    emptied                        [10] IMPLICIT Emptied          OPTIONAL,
    interruptionDetected          [11] IMPLICIT InterruptionDetected OPTIONAL,
    notRecognized                  [12] IMPLICIT NotRecognized    OPTIONAL,
    play                            [ 0] IMPLICIT Play            OPTIONAL,
    record                          [ 1] IMPLICIT Record          OPTIONAL,
    recognized                      [13] IMPLICIT Recognized     OPTIONAL,
    review                          [ 2] IMPLICIT ReviewEvent    OPTIONAL,
    started                        [14] IMPLICIT Started         OPTIONAL,
    silenceTimeoutExpired          [15] IMPLICIT SilenceTimeoutExpired OPTIONAL,
    speechDetected                  [16] IMPLICIT SpeechDetected   OPTIONAL,
    stop                            [ 3] IMPLICIT StopEvent       OPTIONAL,
    suspendPlay                     [ 4] IMPLICIT SuspendPlay     OPTIONAL,
    suspendRecord                   [ 5] IMPLICIT SuspendRecord    OPTIONAL,
    voiceAttribChanged             [ 6] IMPLICIT VoiceAttribChanged OPTIONAL,
    voiceErrorOccured              [17] IMPLICIT VoiceErrorOccured OPTIONAL }

BookmarkReached ::= BIT STRING
{
    resource                         ( 0),    -- optional parameters
    currentPosition                  ( 1),    -- optional parameters
    servicesPermitted                ( 2),    -- optional parameters
    privateData                      ( 3) } -- optional parameters

Completed ::= BIT STRING
{
    resource                         ( 0),    -- optional parameters
    cause                            ( 1),    -- optional parameters

```

```

servicesPermitted          ( 2),    -- optional parameters
privateData                 ( 3) } -- optional parameters

DtmfDetected ::= BIT STRING
{
    resource                  ( 0),    -- optional parameters
    cause                      ( 1),    -- optional parameters
    servicesPermitted          ( 2),    -- optional parameters
    privateData                ( 3) } -- optional parameters

Emptied ::= BIT STRING
{
    resource                  ( 0),    -- optional parameters
    cause                      ( 1),    -- optional parameters
    servicesPermitted          ( 2),    -- optional parameters
    privateData                ( 3) } -- optional parameters

InterruptionDetected ::= BIT STRING
{
    resource                  ( 0),    -- optional parameters
    cause                      ( 1),    -- optional parameters
    servicesPermitted          ( 2),    -- optional parameters
    privateData                ( 3) } -- optional parameters

NotRecognized ::= BIT STRING
{
    resource                  ( 0),    -- optional parameters
    result                     ( 1),    -- optional parameters
    cause                      ( 2),    -- optional parameters
    servicesPermitted          ( 3),    -- optional parameters
    privateData                ( 4) } -- optional parameters

Play ::= BIT STRING
{
    length                     ( 0),    -- optional parameters
    currentPosition            ( 1),    -- optional parameters
    speed                      ( 2),    -- optional parameters
    cause                      ( 3),    -- optional parameters
    servicesPermitted          ( 4),    -- optional parameters
    privateData                ( 5) } -- optional parameters

Recognized ::= BIT STRING
{
    resource                  ( 0),    -- optional parameters
    cause                      ( 1),    -- optional parameters
    servicesPermitted          ( 2),    -- optional parameters
    privateData                ( 3) } -- optional parameters

Record ::= BIT STRING
{
    length                     ( 0),    -- optional parameters
    currentPosition            ( 1),    -- optional parameters
    speed                      ( 2),    -- optional parameters
    cause                      ( 3),    -- optional parameters
    servicesPermitted          ( 4),    -- optional parameters
    privateData                ( 5) } -- optional parameters

ReviewEvent ::= BIT STRING
{
    message                    ( 5),    -- optional parameters
    resource                   ( 6),    -- optional parameters
    length                     ( 0),    -- optional parameters
    currentPosition            ( 1),    -- optional parameters
    cause                      ( 2),    -- optional parameters
    servicesPermitted          ( 3),    -- optional parameters
    privateData                ( 4) } -- optional parameters

```

```

SilenceTimeoutExpired ::= BIT STRING
{
    resource                               ( 0), -- optional parameters
    cause                                   ( 1), -- optional parameters
    servicesPermitted                      ( 2), -- optional parameters
    privateData                            ( 3) } -- optional parameters

SpeechDetected ::= BIT STRING
{
    resource                               ( 0), -- optional parameters
    cause                                   ( 1), -- optional parameters
    servicesPermitted                      ( 2), -- optional parameters
    privateData                            ( 3) } -- optional parameters

Started ::= BIT STRING
{
    resource                               ( 0), -- optional parameters
    cause                                   ( 1), -- optional parameters
    servicesPermitted                      ( 2), -- optional parameters
    privateData                            ( 3) } -- optional parameters

StopEvent ::= BIT STRING
{
    message                                ( 6), -- optional parameters
    resource                               ( 7), -- optional parameters
    length                                 ( 0), -- optional parameters
    currentPosition                         ( 1), -- optional parameters
    speed                                  ( 2), -- optional parameters
    cause                                   ( 3), -- optional parameters
    servicesPermitted                      ( 4), -- optional parameters
    privateData                            ( 5) } -- optional parameters

SuspendPlay ::= BIT STRING
{
    message                                ( 5), -- optional parameters
    resource                               ( 6), -- optional parameters
    length                                 ( 0), -- optional parameters
    currentPosition                         ( 1), -- optional parameters
    cause                                   ( 2), -- optional parameters
    servicesPermitted                      ( 3), -- optional parameters
    privateData                            ( 4) } -- optional parameters

SuspendRecord ::= BIT STRING
{
    message                                ( 5), -- optional parameters
    resource                               ( 6), -- optional parameters
    length                                 ( 0), -- optional parameters
    currentPosition                         ( 1), -- optional parameters
    cause                                   ( 2), -- optional parameters
    servicesPermitted                      ( 3), -- optional parameters
    privateData                            ( 4) } -- optional parameters

VoiceAttribChanged ::= BIT STRING
{
    message                                ( 7), -- optional parameters
    resource                               ( 8), -- optional parameters
    playVolumeAbs                          ( 0), -- optional parameters
    playVolumeInc                          ( 1), -- optional parameters
    recordGain                             ( 2), -- optional parameters
    speed                                  ( 3), -- optional parameters
    currentPosition                         ( 4), -- optional parameters
    grammars                               ( 9), -- optional parameters
    language                               (10), -- optional parameters
    mode                                   (11), -- optional parameters
    retainAudio                            (12), -- optional parameters
    silenceTimeout                         (13), -- optional parameters
    maxTimeout                            (14), -- optional parameters
}

```

```

babbleTimeout          (15),    -- optional parameters
endSilence             (16),    -- optional parameters
rejectionThreshold     (17),    -- optional parameters
autoInterruptable      (18),    -- optional parameters
innerXML               (19),    -- optional parameters
interdigitTimeout      (20),    -- optional parameters
preflush                (21),    -- optional parameters
cause                  ( 5),    -- optional parameters
privateData             ( 6) }  -- optional parameters

VoiceErrorOccured ::= BIT STRING
{
    resource           ( 0),    -- optional parameters
    cause              ( 1),    -- optional parameters
    servicesPermitted  ( 2),    -- optional parameters
    privateData         ( 3) }  -- optional parameters

CDRServList ::= SEQUENCE
{
    cdrNotification      [ 0] IMPLICIT   CdrNotification        OPTIONAL,
    cdrReport            [ 1] IMPLICIT   CdrReport           OPTIONAL,
    sendStoredCDRs       [ 2] IMPLICIT   SendStoredCDRs      OPTIONAL,
    startCDRTransmission [ 3] IMPLICIT   StartCDRTransmission OPTIONAL,
    stopCDRTransmission  [ 4] IMPLICIT   StopCDRTransmission OPTIONAL }

CdrNotification ::= BIT STRING
{
    cdrReasonTimeout      ( 0),    -- optional parameters
    cdrReasonThresholdReached ( 1),    -- optional parameters
    cdrReasonOther         ( 2),    -- optional parameters
    privateData            ( 3),    -- optional parameters
    privateDataInAck       ( 4) }  -- optional parameters

CdrReport ::= BIT STRING
{
    cdrReasonTimeout      ( 0),    -- optional parameters
    cdrReasonThresholdReached ( 1),    -- optional parameters
    cdrReasonOther         ( 2),    -- optional parameters
    recordNumber          ( 3),    -- optional parameters
    recordCreationTime    ( 4),    -- optional parameters
    callingDevice          ( 5),    -- optional parameters
    calledDevice           ( 6),    -- optional parameters
    assocCallingDevice    ( 7),    -- optional parameters
    assocCalledDevice     ( 8),    -- optional parameters
    netwCallingDevice     ( 9),    -- optional parameters
    netwCalledDevice       (10),    -- optional parameters
    callCharacteristics   (11),    -- optional parameters
    mediaCallCharacteristics (12),    -- optional parameters
    chargedDeviceOperator (13),    -- optional parameters
    chargedDeviceNonOperator (14),    -- optional parameters
    recordedCall          (15),    -- optional parameters
    nodeNumberArea0        (16),    -- optional parameters
    nodeNumberArea1        (17),    -- optional parameters
    nodeNumberArea2        (18),    -- optional parameters
    tarifTable             (19),    -- optional parameters
    connectionStart        (20),    -- optional parameters
    connectionEnd          (21),    -- optional parameters
    connectionDuration     (22),    -- optional parameters
    accessCode              (23),    -- optional parameters
    carrier                (24),    -- optional parameters
    selectedRoute           (25),    -- optional parameters
    billingIndicatorNormalCharging (26),    -- optional parameters
    billingIndicatorReverseCharging (27),    -- optional parameters
    billingIndicatorCreditCardCharging (28),    -- optional parameters

```

```

billingIndicatorCallForwarding          (29),   -- optional parameters
billingIndicatorCallDeflection         (30),   -- optional parameters
billingIndicatorCallTransfer           (31),   -- optional parameters
billingIndicatorOther                  (32),   -- optional parameters
chargingInfo                          (33),   -- optional parameters
suppServiceInfoNormalCall             (34),   -- optional parameters
suppServiceInfoConsultationCall       (35),   -- optional parameters
suppServiceInfoTransferCall           (36),   -- optional parameters
suppServiceInfoCallCompletion         (37),   -- optional parameters
suppServiceInfoCallForwarding         (38),   -- optional parameters
suppServiceInfoCallDiversion          (39),   -- optional parameters
suppServiceInfoConferencing           (40),   -- optional parameters
suppServiceInfoIntrusion              (41),   -- optional parameters
suppServiceInfoUserUserInfo           (42),   -- optional parameters
suppServiceInfoOther                  (43),   -- optional parameters
reasonForTermNormalClearing          (44),   -- optional parameters
reasonForTermUnsuccessfulCallAttempt (45),   -- optional parameters
reasonForTermAbnormalTermination     (46),   -- optional parameters
reasonForTermCallTransferred         (47),   -- optional parameters
reasonForTermOther                   (48),   -- optional parameters
authCode                             (49),   -- optional parameters
accountInfo                          (50),   -- optional parameters
deviceCategory                       (51),   -- optional parameters
namedDeviceTypes                     (52),   -- optional parameters
operatorDevice                        (53),   -- optional parameters
lastStoredCDRReportSent              (54),   -- optional parameters
privateData                           (55),   -- optional parameters
privateDataInAck                      (56) } -- optional parameters

SendStoredCDRs ::= BIT STRING
{
    timePeriod                         ( 0),   -- optional parameters
    privateData                          ( 1),   -- optional parameters
    privateDataInAck                    ( 2) } -- optional parameters

StartCDRTransmission ::= BIT STRING
{
    transferModeTransferAtEndOfCall     ( 0),   -- optional parameters
    transferModeTransferOnRequest       ( 1),   -- optional parameters
    transferModeTransferOnThresholdReached ( 2),   -- optional parameters
    privateData                          ( 3),   -- optional parameters
    privateDataInAck                   ( 4) } -- optional parameters

StopCDRTransmission ::= BIT STRING
{
    cdrTermReasonEndOfData             ( 0),   -- optional parameters
    cdrTermReasonError                 ( 1),   -- optional parameters
    cdrTermReasonThresholdReached      ( 2),   -- optional parameters
    cdrTermReasonOther                 ( 3),   -- optional parameter
    privateData                         ( 4),   -- optional parameter
    privateDataInAck                   ( 5),   -- optional parameter
    swFunctionSupportsSending          ( 6),   -- miscellaneous characteristics
    swFunctionSupportsReceiving        ( 7) } -- miscellaneous characteristics

LocationServicesServList ::= SEQUENCE
{
    getLocationInformation            [ 0] IMPLICIT GetLocationInformation      OPTIONAL,
    setLocationInformation            [ 1] IMPLICIT SetLocationInformation      OPTIONAL,
    locationTrackingSessionResumed    [ 2] IMPLICIT LocationTrackingSessionResumed  OPTIONAL,
    locationTrackingSessionSuspended  [ 3] IMPLICIT LocationTrackingSessionSuspended  OPTIONAL,
    resumeLocationTrackingSession     [ 4] IMPLICIT ResumeLocationTrackingSession  OPTIONAL,
    locationInformationReport         [ 5] IMPLICIT LocationInformationReport    OPTIONAL,
    startLocationTrackingSession      [ 6] IMPLICIT StartLocationTrackingSession  OPTIONAL,
    stopLocationTrackingSession       [ 7] IMPLICIT StopLocationTrackingSession  OPTIONAL,
}

```

```

suspendLocationTrackingSession      [ 8] IMPLICIT SuspendLocationTrackingSession      OPTIONAL,
getLocationTrackingCapabilities   [ 9] IMPLICIT GetLocationTrackingCapabilities  OPTIONAL,
getLocationTrackingSessions       [10] IMPLICIT GetLocationTrackingSessions   OPTIONAL,
locationSessionInfo              [11] IMPLICIT LocationSessionInfo        OPTIONAL }

GetLocationInformation ::= BIT STRING
{
    privateData          ( 0),
    locationInfoInAck   ( 1),
    privateDataInAck     ( 2) }

SetLocationInformation ::= BIT STRING
{
    locationInfo          ( 0),
    replaceMode           ( 1),
    privateData           ( 2),
    privateDataInAck      ( 3) }

LocationTrackingSessionResumed ::= BIT STRING
{
    locReason            ( 0),
    privateData          ( 1),
    privateDataInAck     ( 2) }

LocationTrackingSessionSuspended ::= BIT STRING
{
    locReason            ( 0),
    locationInfoList     ( 1),
    privateData          ( 2),
    privateDataInAck     ( 3) }

ResumeLocationTrackingSession ::= BIT STRING
{
    privateData          ( 0),
    privateDataInAck     ( 1) }

LocationInformationReport ::= BIT STRING
{
    locationInfoList     ( 0),
    privateData          ( 1),
    privateDataInAck     ( 2) }

StartLocationTrackingSession ::= BIT STRING
{
    collectionType        ( 0),
    collectionInterval    ( 1),
    maxCollections        ( 2),
    collectionFilter       ( 3),
    reportingType         ( 4),
    reportingCount        ( 5),
    privateData           ( 6),
    piDFProfileOption1inAck ( 7),
    piDFProfileOption2inAck ( 8),
    privateDataInAck       ( 9) }

StopLocationTrackingSession ::= BIT STRING
{
    reason               ( 0),
    privateData          ( 1),
    privateDataInAck     ( 2) }

SuspendLocationTrackingSession ::= BIT STRING
{
    reason               ( 0),
    privateData          ( 1),
    privateDataInAck     ( 2) }

GetLocationTrackingCapabilities ::= BIT STRING
{
    privateData          ( 0),

```

```

privateDataInAck           ( 1 ) }

GetLocationTrackingSessions ::= BIT STRING
{
    privateData          ( 0 ),
    privateDataInAck     ( 1 ) }

LocationSessionInfo ::= BIT STRING
{
    segmentID           ( 0 ),
    privateData         ( 1 ) }

VendorSpecificServList ::= SEQUENCE
{
    escapeRegister      [ 0 ] IMPLICIT EscapeRegister           OPTIONAL,
    escapeRegisterCancel [ 1 ] IMPLICIT EscapeRegisterCancel   OPTIONAL,
    escapeRegisterAbort [ 2 ] IMPLICIT EscapeRegisterAbort   OPTIONAL,
    escape              [ 3 ] IMPLICIT Escape                  OPTIONAL,
    privateDataVersionSelection [ 4 ] IMPLICIT PrivateDataVersionSelection OPTIONAL }

EscapeRegister ::= BIT STRING
{
    privateData          ( 0 ), -- optional parameters
    privateDataInAck     ( 1 ) } -- optional parameters

EscapeRegisterCancel ::= BIT STRING
{
    privateData          ( 0 ), -- optional parameters
    privateDataInAck     ( 1 ) } -- optional parameters

EscapeRegisterAbort ::= BIT STRING
{
    privateData          ( 0 ), -- optional parameters
    privateDataInAck     ( 1 ) } -- optional parameters

Escape ::= BIT STRING
{
    privateDataInAck     ( 0 ), -- optional parameters
    swFunctionSupportsSending ( 1 ), -- misc characteristics
    swFunctionSupportsReceiving ( 2 ) } -- misc characteristics

PrivateDataVersionSelection ::= BIT STRING
{
    privateDataInAck     ( 0 ) } -- optional parameters

VendorSpecificEvtsList ::= SEQUENCE
{
    privateEvent          [ 0 ] IMPLICIT PrivateEvent           OPTIONAL }

PrivateEvent ::= BIT STRING

-- other Types

DeviceIDFormat ::= BIT STRING
{
    dialableDigitsAsterix        ( 0 ),
    dialableDigitsHash           ( 1 ),
    dialableDigitsABCD          ( 2 ),
    dialableDigitsExclamation   ( 3 ),
    dialableDigitsP              ( 4 ),
    dialableDigitsT              ( 5 ),
    dialableDigitsComma          ( 6 ),
    dialableDigitsW              ( 7 ),
    dialableDigitsAt             ( 8 ),
    dialableDigitsDollar         ( 9 ),
    dialableDigitsSemicolon     (10 ),
    sFReprExclamation          (11 ),
    sFReprEt                   (12 ),
    sFReprSlash                (13 ),
    sFReprPercent               (14 ),
}

```

```

sFReprNM                                (15),
sFReprGeneric                            (16),
sFReprImplicitTON                        (17),
sFReprPubTONUnknown                      (18),
sFReprPubTONInternal                     (19),
sFReprPubTONNational                     (20),
sFReprPubTONSubscriber                  (21),
sFReprPubTONAbbreviated                 (22),
sFReprPriTONUnknown                     (23),
sFReprPriTONLevel3                      (24),
sFReprPriTONLevel2                      (25),
sFReprPriTONLevel1                      (26),
sFReprPriTONLocal                       (27),
sFReprPriTONAbbreviated                 (28),
sFReprOther                             (29),
sFRResourceID                           (31),
privateNumber                           (32),
privateName                             (33),
deviceNumber                           (30) }

SwDomainFeatures ::= BIT STRING
{
    isForwardingBefore                    ( 0),
    isForwardingAfter                     ( 1),
    swFunctionDefaultSettings            ( 2),
    userSpecific                         ( 3),
    userSpecificDefaultFowardingType    ( 4),
    userSpecificDefaultForwardDestination( 5),
    negativeAcknowledgment              ( 6),
    supportFailedWithAssConn            ( 7),
    supportFailedWithoutAssConn         ( 8),
    supportFailedWithAssConnNotReportet( 9),
    recall                               (10),
    callBack                             (11),
    extCallsIncoming                     (12),
    extCallsOutgoing                     (13),
    prompting                            (14) }

SwAppearanceAddressability ::= BIT STRING
{
    nonAddressable                        ( 0),
    addressable                           ( 1) }

SwAppearanceTypes ::= BIT STRING
{
    selectedStandard                     ( 0),
    basicStandard                        ( 1),
    basicBridged                         ( 2),
    exclusiveBridged                    ( 3),
    independentSharedBridged            ( 4),
    interDependentSharedBridged        ( 5) }

IgnoreUnsupportedParameters ::= ENUMERATED
{
    ignoreParameters                     ( 0),
    rejectMessage                        ( 1) }

PauseTime ::= INTEGER (1..2000)

TimeStampMode ::= BIT STRING
{
    allEvents                            ( 0),
    allAcks                             ( 1),
    allServReqs                          ( 2) }

```

```

MiscMonitorCaps ::= BIT STRING
{
    groupInclusivModel                ( 0),
    groupExclusiveModel               ( 1),
    monitorPhysicalElement            ( 2),
    acdDeviceInclusiv                 ( 3),
    acdDeviceExclusiv                  ( 4) }

MaxLengthParameters ::= SEQUENCE
{
    accountInfo                      INTEGER (0..32),
    authCode                         INTEGER (0..32),
    agentID                          INTEGER (0..32),
    agentPassword                    INTEGER (0..32),
    callIDInConnectionID             INTEGER (0..8),
    correlatorData                   INTEGER (0..32),
    privateData                      INTEGER,
    deviceIdentifiers                INTEGER (0..128),
    userData                         INTEGER (0..256),
    buttonLabel                      INTEGER (0..64),
    lampLabel                        INTEGER (0..64),
    charactersToSend                 INTEGER (0..64) }

MaxLengthParametersContinued ::= SEQUENCE
{
    monitorCrossRefID                INTEGER,
    callQualifyingData               INTEGER,
    subDomainCallLinkageData         INTEGER,
    subDomainThreadID                INTEGER,
    ioData                           INTEGER,
    messageInfo                      INTEGER }

FilterThreshold ::= SEQUENCE
{
    getLogicalDeviceInformation      INTEGER,
    getPhysicalDeviceInformation     INTEGER,
    getSwitchingFunctionCaps        INTEGER,
    getSwitchingFunctionDevices     INTEGER,
    switchingFunctionDevices         INTEGER,
    changeSystemStatusFilter         INTEGER,
    systemStatusRegister             INTEGER,
    systemStatusRegisterAbort       INTEGER,
    systemStatusRegisterCancel      INTEGER,
    requestSystemStatus              INTEGER,
    systemStatus                     INTEGER,
    switchingFunctionCapsChanged    INTEGER,
    switchingFunctionDevsChanged    INTEGER,
    changeMonitorFilter              INTEGER,
    monitorStart                     INTEGER,
    monitorStop                      INTEGER,
    snapshotCall                     INTEGER,
    snapshotDevice                  INTEGER,
    snapshotCallData                 INTEGER,
    snapshotDeviceData               INTEGER,
    acceptCall                       INTEGER,
    alternateCall                    INTEGER,
    answerCall                       INTEGER,
    callBackCallRelated              INTEGER,
    callBackMessageCallRelated      INTEGER,
    campOnCall                       INTEGER,
    clearCall                        INTEGER,
    clearConnection                  INTEGER,
    conferenceCall                   INTEGER,
    consultationCall                 INTEGER,
}

```

| | |
|-------------------------------|----------|
| deflectCall | INTEGER, |
| dialDigits | INTEGER, |
| directedPickupCall | INTEGER, |
| groupPickupCall | INTEGER, |
| holdCall | INTEGER, |
| intrudeCall | INTEGER, |
| joinCall | INTEGER, |
| makeCall | INTEGER, |
| makePredictiveCall | INTEGER, |
| parkCall | INTEGER, |
| reconnectCall | INTEGER, |
| retrieveCall | INTEGER, |
| singleStepConferenceCall | INTEGER, |
| singleStepTransferCall | INTEGER, |
| transferCall | INTEGER, |
| associateData | INTEGER, |
| cancelTelephonyTone | INTEGER, |
| generateDigits | INTEGER, |
| generateTelephonyTone | INTEGER, |
| sendUserInformation | INTEGER, |
| startDTMFDigitsCollection | INTEGER, |
| startTelephonyTonesCollection | INTEGER, |
| stopDTMFDigitsCollection | INTEGER, |
| stopTelephonyTonesCollection | INTEGER, |
| attachMediaService | INTEGER, |
| detachMediaService | INTEGER, |
| routeRegister | INTEGER, |
| routeRegisterAbort | INTEGER, |
| routeRegisterCancel | INTEGER, |
| reRoute | INTEGER, |
| routeEnd | INTEGER, |
| routeReject | INTEGER, |
| routeRequest | INTEGER, |
| routeSelect | INTEGER, |
| routeUsed | INTEGER, |
| buttonPress | INTEGER, |
| getAuditoryApparatusInfo | INTEGER, |
| getButtonInformation | INTEGER, |
| getDisplay | INTEGER, |
| getHookswitchStatus | INTEGER, |
| getLampInformation | INTEGER, |
| getLampMode | INTEGER, |
| getMicrophoneGain | INTEGER, |
| getMicrophoneMute | INTEGER, |
| getMessageWaitingIndicator | INTEGER, |
| getRingerStatus | INTEGER, |
| getSpeakerMute | INTEGER, |
| getSpeakerVolume | INTEGER, |
| setButtonInformation | INTEGER, |
| setDisplay | INTEGER, |
| setHookswitchStatus | INTEGER, |
| setLampMode | INTEGER, |
| setMsgWaitingIndicator | INTEGER, |
| setMicrophoneGain | INTEGER, |
| setMicrophoneMute | INTEGER, |
| setRingerStatus | INTEGER, |
| setSpeakerMute | INTEGER, |
| setSpeakerVolume | INTEGER, |
| callBackMessageNonCallRelated | INTEGER, |
| callBackNonCallRelated | INTEGER, |

```

cancelCallBack                           INTEGER ,
cancelCallBackMessage                  INTEGER ,
getAgentState                          INTEGER ,
getAutoAnswer                           INTEGER ,
getAutoWorkMode                        INTEGER ,
getCallerIDStatus                     INTEGER ,
getDoNotDisturb                         INTEGER ,
getForwarding                           INTEGER ,
getLastNumberDialed                   INTEGER ,
getRouteingMode                        INTEGER ,
setAgentState                          INTEGER ,
setAutoAnswer                           INTEGER ,
setAutoWorkMode                        INTEGER ,
setCallerIDStatus                     INTEGER ,
setDoNotDisturb                         INTEGER ,
setForwarding                           INTEGER ,
setRouteingMode                        INTEGER ,
backInService                           INTEGER ,
deviceCaosChanged                     INTEGER ,
outOfService                           INTEGER ,
partiallyInService                    INTEGER ,
ioRegister                            INTEGER ,
ioRegisterAbort                        INTEGER ,
ioRegisterCancel                       INTEGER ,
dataPathResumed                        INTEGER ,
dataPathSuspended                      INTEGER ,
fastData                                INTEGER ,
resumeDataPath                         INTEGER ,
sendBroadcastData                     INTEGER ,
sendData                                INTEGER ,
sendMulticastData                     INTEGER ,
startDataPath                          INTEGER ,
stopDataPath                           INTEGER ,
suspendDataPath                        INTEGER ,
concatenateMsg                         INTEGER ,
deleteMsg                               INTEGER ,
playMsg                                 INTEGER ,
queryVoiceAttribute                   INTEGER ,
recordMsg                               INTEGER ,
reposition                             INTEGER ,
resume                                 INTEGER ,
review                                 INTEGER ,
setVoiceAttribute                     INTEGER ,
stop                                  INTEGER ,
suspend                               INTEGER ,
synthesizeMsg                         INTEGER ,
cDRNotification                        INTEGER ,
cDRReport                             INTEGER ,
sendStoredCDRs                         INTEGER ,
startCDRTransmission                  INTEGER ,
stopCDRTransmission                   INTEGER ,
escapeRegister                        INTEGER ,
escapeRegisterAbort                   INTEGER ,
escapeRegisterCancel                  INTEGER ,
escape                                 INTEGER ,
privateDataVersion                     INTEGER } 
```

```

MediaServiceCapsList ::= SEQUENCE OF SEQUENCE
{
    mediaServiceType                  MediaServiceType ,
    mediaServiceVersion               INTEGER 
```

OPTIONAL ,

```

mediaServiceInstance           MediaServiceInstanceID          OPTIONAL,
connectionMode                ConnectionModeBMap           OPTIONAL,
mediaStreamIDSupported        BOOLEAN } 

DeviceCategory ::= ENUMERATED
{
    acd                      ( 0),
    group                    ( 1),
    networkInterface         ( 2),
    park                     ( 3),
    routeingDevice           ( 4),
    station                  ( 5),
    voiceUnit                ( 6),
    genericInteractiveVoice  ( 8),
    listenerInteractiveVoice ( 9),
    dtmfInteractiveVoice     (10),
    promptInteractiveVoice   (11),
    promptQueueInteractiveVoice (12),
    messageInteractiveVoice (13),
    conference               (14),
    other                    ( 7) }

GroupDeviceAttributes ::= BIT STRING
{
    acd                      ( 0),
    hunt                     ( 1),
    pick                     ( 2),
    user                     ( 4),
    agent                    ( 5),
    other                    ( 3) }

NamedDeviceTypes ::= ENUMERATED
{
    acd                      ( 0),
    acdGroup                 ( 1),
    button                   ( 2),
    buttonGroup              ( 3),
    conferenceBridge         ( 4),
    line                     ( 5),
    lineGroup                ( 6),
    operator                 ( 7),
    operatorGroup            ( 8),
    parkingDevice            ( 9),
    station                  (10),
    stationGroup             (11),
    trunk                    (12),
    trunkGroup               (13),
    other                    (14),
    otherGroup               (15) }

ACDModels ::= BIT STRING
{
    visibleACDRelatedDevices ( 0),
    nonVisibleACDRelatedDevices ( 1) }

AgentLogOnModels ::= BIT STRING
{
    logOnToACDDevice          ( 0),
    logOnToACDGroupExplOneStep ( 1),
    logOnToACDGroupExplTwoSteps ( 2),
    logOnToACDImplOneStep     ( 3) }

AppearanceType ::= ENUMERATED
{
    selectedStandard          ( 0),
    basicStandard             ( 1),

```

```
basicBridged          ( 2),
exclusiveBridged      ( 3),
independentSharedBridged ( 4),
interdependentSharedBridged ( 5) }

TransAndConfSetup ::= BIT STRING
{
    consultationCall      ( 0),
    holdCallMakeCall      ( 1),
    alternateCall         ( 2),
    twoCallsInHold        ( 3),
    twoCallsInConnected   ( 4) }

END -- of CSTA-capability-exchange
```

9.11 Call Detail Record

```

CSTA-call-detail-record
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-record( 132) }

DEFINITIONS ::=

BEGIN

EXPORTS
CDRCrossRefID, CDRInfo, CDRReason, CDRTermReason, CDRTimePeriod,
CDRTransferMode;

IMPORTS
DeviceID, CalledDeviceID, CallingDeviceID, AssociatedCalledDeviceID,
AssociatedCallingDeviceID, NetworkCalledDeviceID, NetworkCallingDeviceID

FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
AccountInfo, AuthCode FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
TimeInfo FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CallCharacteristics FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
DeviceCategory, NamedDeviceTypes FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) }
ChargingInfo FROM CSTA-charge-info
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) charge-info( 133) }
MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

CDRCrossRefID ::= OCTET STRING

CDRReason ::= ENUMERATED
{   timeout                      (0),
    thresholdReached              (1),
    other                         (2) }

CDRInfo ::= SEQUENCE OF CDRInformationItem

CDRInformationItem ::= SEQUENCE
{   recordNumber                 INTEGER (1..128)                   OPTIONAL,
    recordCreationTime            TimeInfo,
    callingDevice                 CallingDeviceID                  OPTIONAL,
    calledDevice                  CalledDeviceID                  OPTIONAL,
    associatedCallingDevice       AssociatedCallingDeviceID    OPTIONAL,
    associatedCalledDevice        AssociatedCalledDeviceID   OPTIONAL,

```

| | | |
|--------------------------|---|------------|
| networkCallingDevice | NetworkCallingDeviceID | OPTIONAL, |
| networkCalledDevice | NetworkCalledDeviceID | OPTIONAL, |
| callCharacteristics | [0] IMPLICIT CallCharacteristics | OPTIONAL, |
| mediaCallCharacteristics | [1] IMPLICIT MediaCallCharacteristics | OPTIONAL, |
| chargedDevice | [2] ChargedDevice | OPTIONAL, |
| recordedCall | ConnectionID | OPTIONAL, |
| nodeNumber | [3] IMPLICIT NodeNumber | OPTIONAL, |
| tariffTable | [4] IMPLICIT INTEGER | OPTIONAL, |
| connectionStart | [5] IMPLICIT TimeInfo | OPTIONAL, |
| connectionEnd | [6] IMPLICIT TimeInfo | OPTIONAL, |
| connectionDuration | [7] IMPLICIT INTEGER | OPTIONAL, |
| accessCode | [8] IMPLICIT OCTET STRING | OPTIONAL, |
| carrier | [9] IMPLICIT INTEGER | OPTIONAL, |
| selectedRoute | [10] IMPLICIT INTEGER | OPTIONAL, |
| billingID | [11] IMPLICIT BillingID | OPTIONAL, |
| chargingInfo | [12] IMPLICIT ChargingInfo | OPTIONAL, |
| supplServiceInfo | [13] IMPLICIT SupplServiceInfo | OPTIONAL, |
| reasonForTerm | [14] IMPLICIT ReasonForTerm | OPTIONAL, |
| authCode | [15] IMPLICIT AuthCode | OPTIONAL, |
| accountInfo | [16] IMPLICIT AccountInfo | OPTIONAL, |
| deviceCategory | [17] IMPLICIT DeviceCategory | OPTIONAL, |
| namedDeviceTypes | [18] IMPLICIT NamedDeviceTypes | OPTIONAL, |
| operatorDevice | [19] DeviceID | OPTIONAL } |

ChargedDevice ::= CHOICE

| | | |
|---|-------------|---------------------------|
| { | operator | [0] IMPLICIT DeviceID, |
| | nonOperator | [1] IMPLICIT DeviceID } |

NodeNumber ::= SEQUENCE

| | | | |
|---|-------|------------------------|------------|
| { | area0 | [0] IMPLICIT INTEGER | OPTIONAL, |
| | areal | [1] IMPLICIT INTEGER | OPTIONAL, |
| | area2 | [2] IMPLICIT INTEGER | OPTIONAL } |

BillingID ::= ENUMERATED

| | | |
|---|--------------------|-------|
| { | normalCharging | (0), |
| | reverseCharging | (1), |
| | creditCardCharging | (2), |
| | callForwarding | (3), |
| | callDeflection | (4), |
| | callTransfer | (5), |
| | other | (6) } |

SupplServiceInfo ::= BIT STRING

| | | |
|---|------------------|-------|
| { | normalCall | (0), |
| | consultationCall | (1), |
| | transferCall | (2), |
| | callCompletion | (3), |
| | callForwarding | (4), |
| | callDiversion | (5), |
| | conferencing | (6), |
| | intrusion | (7), |
| | userUserInfo | (8), |
| | other | (9) } |

ReasonForTerm ::= ENUMERATED

| | | |
|---|-------------------------|-------|
| { | normalClearing | (0), |
| | unsuccessfulCallAttempt | (1), |
| | abnormalTermination | (2), |
| | callTransferred | (3), |
| | other | (4) } |

```
CDRTimePeriod ::= SEQUENCE
{
    beginningOfCDR           TimeInfo,
    endOfCDR                 TimeInfo
}

CDRTransferMode ::= ENUMERATED
{
    transferAtEndOfCall      (0),
    transferOnRequest         (1),
    transferOnThresholdReached (2)
}

CDRTermReason ::= ENUMERATED
{
    endOfDataDetected         (0),
    errorDetected              (1),
    thresholdReached           (2),
    other                      (3)
}

END -- of CSTA-call-detail-record
```

9.12 Charge information

```

CSTA-charge-info
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) charge-info( 133) }

DEFINITIONS ::=

BEGIN

EXPORTS
ChargingInfo;

ChargingInfo ::= SEQUENCE
{   numberUnits           NumberUnits,
    typeOfChargingInfo    ENUMERATED
    {     subTotal          (0),
          total             (1) } }

NumberUnits ::= CHOICE
{   numberOfChargeUnits      [0] IMPLICIT  NumberOfChargingUnits,
    numberOfCurrencyUnits   [1] IMPLICIT  NumberOfCurrencyUnits }

NumberOfChargingUnits ::= SEQUENCE OF SEQUENCE
{   chargingUnits          INTEGER,
    typeOfUnits            OCTET STRING  OPTIONAL }

NumberOfCurrencyUnits ::= SEQUENCE
{   currencyType           OCTET STRING,    -- size 0 indicates default currency
    currencyAmount          INTEGER,
    currencyMultiplier      ENUMERATED
    {     oneThousandth       (0),
          oneHundredth        (1),
          oneTenth              (2),
          one                  (3),
          ten                  (4),
          hundred              (5),
          thousand             (6)
    }
}

END -- of CSTA-charge-info

```

9.13 Data call types

```
CSTA-data-call-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-call-types( 134) }

DEFINITIONS ::=

BEGIN

EXPORTS
NumberOfChannels, MaxChannelBind, ConnectionRateList, DelayToleranceList;

NumberOfChannels ::= INTEGER

MaxChannelBind ::= INTEGER

ConnectionRateList ::= SEQUENCE OF INTEGER

DelayToleranceList ::= SEQUENCE OF INTEGER

END -- of CSTA-data-call-types
```

9.14 Escape types

```
CSTA-escape-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-types( 135) }

DEFINITIONS ::=

BEGIN

EXPORTS
EscapeRegisterID;

EscapeRegisterID ::= [0] OCTET STRING

END -- of CSTA-escape-types
```

9.15 Media services

```

CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) }

DEFINITIONS ::=

BEGIN

EXPORTS
ConnectionInformation, ConnectionMode, ConnectionModeBMap, MediaCallCharacteristics,
MediaServiceInstanceId, MediaServiceType, MediaStreamID, MediaClass;

MediaServiceType ::= ENUMERATED
{
  cstaVoiceUnit                  ( 0),
  dataModem                      ( 1),
  digitalDataIsochronousIeee1394 ( 2),
  digitalDataIsochronousGeoport  ( 3),
  digitalDataIsochronousIeeeAtm  ( 4),
  digitalDataIsochronousIeeeIsdn ( 5),
  digitalDataApi                  ( 6),
  ectfs100MediaServicesDefault   ( 7),
  ectfs100MediaServicesAppServices ( 8),
  cstaiIVRScript1                ( 9),
  cstaiIVRScript2                (10),
  cstaiIVRScript3                (11),
  cstaiIVRScript4                (12),
  cstaiIVRScript5                (13),
  cstaiIVRScript6                (14),
  cstaiIVRScript7                (15),
  cstaiIVRScript8                (16),
  cstaiIVRScript9                (17),
  cstaiIVRScript10               (18),
  liveSoundCaptureAnalog         (19),
  liveSoundTransmitAnalog        (20),
  liveSoundCaptureIeee1394       (21),
  liveSoundTransmitIeee1394      (22),
  liveSoundCaptureTransmitGeoport (23),
  liveSoundCaptureTransmitAtm    (24),
  liveSoundCaptureTransmitISDN   (25),
  soundCaptureTransmitADPCM     (26),
  soundCaptureTransmitApi        (27),
  usb                            (28),
  sfSpecific1                   (29),
  sfSpecific2                   (30),
  sfSpecific3                   (31),
  sfSpecific4                   (32),
  sfSpecific5                   (33),
  sfSpecific6                   (34),
  sfSpecific7                   (35),
  sfSpecific8                   (36),
  sfSpecific9                   (37),
  sfSpecific10                  (38) }

MediaStreamID ::= OCTET STRING

MediaServiceInstanceId ::= OCTET STRING

ConnectionInformation ::= SEQUENCE

```

```

{   flowDirection           ENUMERATED
    {
        transmit          ( 0 ),
        receive           ( 1 ),
        transmitAndReceive ( 2 ),
        none              ( 3 ) } OPTIONAL,
    numberOfChannels      INTEGER     DEFAULT    1,
    mediaSessionInformation IA5String OPTIONAL    }

ConnectionMode ::= ENUMERATED
{
    consultationConference      ( 0 ),
    consultationConferenceHold  ( 1 ),
    deflect                      ( 2 ),
    directedPickup               ( 3 ),
    join                         ( 4 ),
    singleStepConference         ( 5 ),
    singleStepConferenceHold    ( 6 ),
    singleStepTransfer           ( 7 ),
    transfer                     ( 8 ),
    direct                       ( 9 ) }

ConnectionModeBMap ::= BIT STRING
{
    consultationConference      ( 0 ),
    consultationConferenceHold  ( 1 ),
    deflect                      ( 2 ),
    directedPickup               ( 3 ),
    join                         ( 4 ),
    singleStepConference         ( 5 ),
    singleStepConferenceHold    ( 6 ),
    singleStepTransfer           ( 7 ),
    transfer                     ( 8 ),
    direct                       ( 9 ) }

MediaCallCharacteristics ::= SEQUENCE
{
    mediaClass                  MediaClass,
    connectionRate              [ 0 ] IMPLICIT INTEGER
                                OPTIONAL,
                                -- value 0 indicates that
                                -- the connection rate is
                                -- unknown
    bitRate                     [ 1 ] IMPLICIT ENUMERATED
    {
        constant          ( 0 ),
        variable          ( 1 ) }                               DEFAULT constant,
    delayTolerance              [ 2 ] IMPLICIT INTEGER
                                OPTIONAL,
    switchingSubDomainCCIEType [ 3 ] IMPLICIT ENUMERATED
    {
        isdn             ( 0 ),
        atm              ( 1 ),
        isoEthernet      ( 2 ),
        rsvp             ( 3 ),
        other            ( 4 ),
        sip              ( 5 ) }                               OPTIONAL,
    switchingSubDomainInformationElements OCTET STRING
                                OPTIONAL }
                                -- is mandatory, if the switchingSubDomainCCIEType is present,
                                -- should be ignored otherwise

MediaClass ::= BIT STRING
{
    voice             ( 0 ),
    data              ( 1 ),
    image             ( 2 ),
    audio             ( 4 ),
    other             ( 3 ),
    notKnown          ( 5 ),

```

```
chat          ( 6 ),  
email        ( 7 ),  
message      ( 8 ),  
im           ( 9 ),  
sms          (10 ),  
mms          (11 ) }
```

END -- of CSTA-media-services

9.16 Physical device features

```

CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
    standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) }

DEFINITIONS ::=

BEGIN

EXPORTS

AuditoryApparatusID, AuditoryApparatusList, ButtonID, CharacterSet, DisplayID, LampBrightness,
LampColor, LampID, LampMode, MicGainAbs, MicrophoneGain, RingerID, RingMode,
VolAbs, Volume, HookswitchID;

AuditoryApparatusList ::= SEQUENCE OF SEQUENCE
{
    auditoryApparatus          AuditoryApparatusID,
    auditoryApparatusType      ENUMERATED
    {
        speakerphone            (0),
        handset                 (1),
        headset                  (2),
        speakerOnlyPhone         (3),
        other                     (4) ,
    }

    speaker      BIT STRING
    {
        present                (0),
        volumeSettable          (1),
        volumeReadable           (2),
        muteSettable              (3),
        muteReadable              (4) ,
    }

    microphone   BIT STRING
    {
        present                (0),
        gainSettable             (1),
        gainReadable              (2),
        muteSettable              (3),
        muteReadable              (4) ,
    }

    hookswitch   BIT STRING
    {
        hookswitchSettable       (0),
        hookswitchOnHook          (1) ,
    }

    hookswitchID HookswitchID }
}

AuditoryApparatusID ::= OCTET STRING

ButtonID ::= OCTET STRING

CharacterSet ::= ENUMERATED
{
    ascii                  (0),
    unicode                 (1),
    proprietary              (2) }

DisplayID ::= OCTET STRING

HookswitchID ::= OCTET STRING

LampBrightness ::= ENUMERATED
{
    unspecified             (0),
    dim                      (1),
}

```

```

bright          (2) }

LampColor ::= INTEGER
{
    noColor      (0),
    red          (1),
    yellow       (2),
    green         (3),
    blue          (4),
    unknown       (5) } (0..100)

LampID ::= OCTET STRING

LampMode ::= INTEGER
{
    brokenFlutter (0),
    flutter        (1),
    off            (2),
    steady         (3),
    wink           (4),
    unknown        (5) } (0..100)

MicrophoneGain ::= CHOICE
{
    micGainAbs     MicGainAbs,
    micGainInc     MicGainInc }

MicGainInc ::= ENUMERATED
{
    increment      (0),
    decrement      (1) }

MicGainAbs ::= INTEGER (0..100)

RingerID ::= OCTET STRING

RingMode ::= ENUMERATED
{
    ringing        (0),
    notRinging     (1) }

Volume ::= CHOICE
{
    volAbs         VolAbs,
    volInc         VolInc }

VolInc ::= ENUMERATED
{
    increment      (0),
    decrement      (1) }

VolAbs ::= INTEGER (0..100)

END -- of CSTA-physical-device-feature

```

9.17 Data Collection

```
CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) }

DEFINITIONS ::=

BEGIN

EXPORTS
DcollCrossRefID;

DcollCrossRefID ::= OCTET STRING

END -- of CSTA-data-collection
```

9.18 Event Cause

```

CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }

DEFINITIONS ::=

BEGIN

EXPORTS
EventCause;

EventCause ::= ENUMERATED
{
    aCDBusy                               ( 57),
    aCDFforward                           ( 58),
    aCDSSaturated                         ( 59),
    activation                             ( 88),
    activeParticipation                   (  1),
    alertTimeExpired                      ( 60),
    alternate                             (  2),
    autoWork                              ( 61),
    babble                                ( 89),
    badAttribute                           ( 90),
    badGrammar                            ( 91),
    badVoice                               ( 92),
    badUri                                 ( 93),
    blocked                               ( 35),
    busy                                   (  3),
    busyOverflow                          ( 94),
    calendarOverflow                     ( 95),
    callBack                             (  4),
    callCancelled                        (  5),
    callForward                           (  9),
    callForwardImmediate                 (  6),
    callForwardBusy                      (  7),
    callForwardNoAnswer                  (  8),
    callInterception                     (116),
    callInterceptionBusy                (117),
    callInterceptionForwarded           (118),
    callInterceptionNoAnswer            (119),
    callInterceptionResourcesNotAvailable (120),
    callNotAnswered                      ( 10),
    callPickup                            ( 11),
    campOn                                ( 12),
    campOnTrunks                         ( 62),
    capacityOverflow                     ( 96),
    characterCountReached               ( 36),
    conference                            ( 63),
    consultation                          ( 37),
    destDetected                          ( 64),
    destNotObtainable                   ( 13),
    destOutOfOrder                       ( 65),
    distributed                           ( 38),
    distributionDelay                    ( 66),
    doNotDisturb                          ( 14),
    dTMFDigitDetected                  ( 39),
    duplicateDTMF                        ( 97),
    durationExceeded                     ( 40),
    earlyStop                             ( 98),
}

```

| | |
|-----------------------------|--------|
| emptyQueue | (99), |
| endOfMessageDetected | (41), |
| enteringDistribution | (42), |
| forcedPause | (43), |
| forcedTransition | (67), |
| incompatibleDestination | (15), |
| interDigitTimeout | (100), |
| intrude | (68), |
| invalidAccountCode | (16), |
| invalidConnection | (101), |
| invalidConnectionState | (102), |
| invalidNumberFormat | (69), |
| joinCall | (70), |
| keyOperation | (17), |
| keyOperationInUse | (71), |
| lawfulInterception | (121), |
| lockout | (18), |
| maintenance | (19), |
| makeCall | (44), |
| makeConnection | (103), |
| makePredictiveCall | (72), |
| maxTimeout | (104), |
| messageDurationExceeded | (73), |
| messageSizeExceeded | (45), |
| multipleAlerting | (74), |
| multipleQueueing | (75), |
| networkCongestion | (20), |
| networkDialling | (76), |
| networkNotObtainable | (21), |
| networkOutOfOrder | (77), |
| networkSignal | (46), |
| newCall | (22), |
| nextMessage | (47), |
| noAudioSaved | (105), |
| noAvailableAgents | (23), |
| noQueue | (106), |
| normal | (78), |
| normalClearing | (48), |
| noRule | (107), |
| noSpeechDetected | (49), |
| notAvailableBearerService | (79), |
| notSupportedBearerService | (80), |
| numberChanged | (50), |
| numberUnallocated | (81), |
| outOfGrammar | (108), |
| overflow | (26), |
| override | (24), |
| park | (25), |
| pathReplacement | (109), |
| queueCleared | (82), |
| queueTimeOverflow | (110), |
| recall | (27), |
| recallBusy | (111), |
| recallForwarded | (112), |
| recallNoAnswer | (113), |
| recallResourcesNotAvailable | (114), |
| redirected | (28), |
| remainsInQueue | (83), |
| reorderTone | (29), |
| reserved | (84), |

```
resourcesNotAvailable          ( 30),
selectedTrunkBusy             ( 85),
silentParticipation           ( 31),
singleStepConference           ( 51),
singleStepTransfer              ( 52),
speechDetected                 ( 53),
suspend                         ( 86),
switchingFunctionTerminated    ( 54),
terminationCharacterReceived   ( 55),
timeout                          ( 56),
transfer                         ( 32),
trunksBusy                      ( 33),
unauthorisedBearerService       ( 87),
unknownOverflow                  (115) }

-- voiceUnitInitiator           ( 34)
-- *** note that the voiceUnitOriginator ( 34) is no longer used (commented out) ***

END -- of CSTA-event-causes
```

9.19 Error Value

```

CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
    standard( 0 ) csta3( 285 ) error-definition( 120 ) }

DEFINITIONS ::=

BEGIN

EXPORTS
UniversalFailure, universalFailure, ErrorValue;

IMPORTS
ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) };

universalFailure ERROR ::=

{
    PARAMETER    UniversalFailure
    CODE         local:1
}

ErrorValue ::= UniversalFailure

UniversalFailure ::= CHOICE
{
    operation                  [0] OperationErrors,
    security                   [1] SecurityErrors,
    stateIncompatibility      [2] StateIncompatibilityErrors,
    systemResourceAvailability [3] SystemResourceAvailabilityErrors,
    subscribedResourceAvailability [4] SubscribedResourceAvailabilityErrors,
    performanceManagement     [5] PerformanceManagementErrors,
    privateData                [6] PrivateDataInfoErrors,
    unspecified                [7] UnspecifiedErrors
}

OperationErrors ::= ENUMERATED -- in CSTA2 added in CSTA3
{
    generic                      ( 1),
    atLeastOneConditionalParameterNotProvided ( 29),
    featureAlreadySet            ( 30),
    invalidMsgID                 ( 25),
    invalidParameterValue        ( 31),
    invalidAccountCode           ( 21),
    invalidAgentGroup             ( 32),
    invalidAgentIdentifier       ( 33),
    invalidAgentPassword          ( 34),
    invalidAgentState              ( 35),
    invalidAlertTime               ( 36),
    invalidAllocationState         ( 16),
    invalidAuthCode                ( 22),
    invalidAutoAnswer              ( 37),
    invalidBitRate                  ( 38),
    invalidButtonIdentifier        ( 39),
    invalidCallType                  ( 42),
    invalidConnectionRate           ( 43),
    invalidConsultPurpose           ( 44),
    invalidCorrelatorData            ( 20),
    invalidCrossRefID                ( 17),
    invalidDelayTolerance           ( 45),
    invalidDestination               ( 14),
    invalidDestinationDetect         ( 46),
    invalidDoNotDisturb                ( 47),
    invalidEscapeCrossRefID          ( 48),
}

```

| | |
|------------------------------------|----------|
| invalidFeature | (15), |
| invalidFile | (28), |
| invalidFlowDirection | (49), |
| invalidForwardingDestination | (7), |
| invalidForwardingFlag | (51), |
| invalidForwardingType | (52), |
| invalidHookswitchType | (53), |
| invalidHookswitchComponent | (54), |
| invalidLampMode | (55), |
| invalidLampID | (56), |
| invalidMessageWaitingSetting | (57), |
| invalidMicrophoneGain | (58), |
| invalidMicrophoneMute | (59), |
| invalidMonitorCrossRefID | (60), |
| invalidMonitorFilter | (61), |
| invalidMonitorObject | (62), |
| invalidMonitorType | (63), |
| invalidNumberOfChannels | (64), |
| invalidParticipationType | (65), |
| invalidRemainRetry | (66), |
| invalidRingCount | (67), |
| invalidRingPattern | (68), |
| invalidRingVolume | (69), |
| invalidRouteingAlgorithm | (70), |
| invalidRouteingCrossRefID | (71), |
| invalidRouteRegistrationCrossRefID | (72), |
| invalidSpeakerVolume | (73), |
| invalidSpeakerMute | (74), |
| invalidSwitchingSubdomainCharsType | (75), |
| invalidObjectType | (18), |
| invalidActiveCallObject | (76), |
| invalidCalledDeviceObjectType | (77), |
| invalidCallingDeviceObjectType | (78), |
| invalidCallToBePickedUpObjectType | (79), |
| invalidCallToDivertObjectType | (80), |
| invalidCallToParkObjectType | (81), |
| invalidDestinationDeviceObject | (195), |
| invalidHeldCallObject | (82), |
| invalidMonitorObjectType | (83), |
| invalidParkToObject-Type | (84), |
| messageIDRequired | (26), |
| notDifferentDevices | (85), |
| notSameDevice | (86), |
| objectNotKnown | (4), |
| invalidCallID | (11), |
| invalidActiveCallID | (87), |
| invalidHeldCallID | (88), |
| invalidConnectionID | (13), |
| invalidActiveConnectionID | (89), |
| invalidHeldConnectionID | (90), |
| invalidDeviceID | (12), |
| invalidActiveDeviceID | (91), |
| invalidCalledDeviceID | (6), |
| invalidCallingDeviceID | (5), |
| invalidCallToParkDeviceID | (92), |
| invalidDestinationDeviceID | (93), |
| invalidDivertingDeviceID | (94), |
| invalidHeldDeviceID | (95), |
| invalidParkToDeviceID | (96), |
| invalidPickUpDeviceID | (97), |

| | |
|---|--------|
| parameterNotSupported | (98), |
| accountCodeNotSupported | (99), |
| agentGroupNotSupported | (100), |
| agentPasswordNotSupported | (101), |
| agentStateNotSupported | (102), |
| alertTimeNotSupported | (103), |
| allocationNotSupported | (104), |
| authorisationCodeNotSupported | (105), |
| autoAnswerNotSupported | (106), |
| bitRateNotSupported | (107), |
| buttonNotSupported | (108), |
| callTypeNotSupported | (109), |
| charactersToSendNotSupported | (110), |
| connectionRateNotSupported | (111), |
| connectionReservationNotSupported | (112), |
| consultPurposeNotSupported | (113), |
| correlatorDataNotSupported | (114), |
| delayToleranceNotSupported | (115), |
| destinationDetectNotSupported | (116), |
| digitModeNotSupported | (117), |
| errorValueNotSupported | (118), |
| flowDirectionNotSupported | (119), |
| forwardingDestinationNotSupported | (120), |
| lampNotSupported | (121), |
| monitorTypeNotSupported | (122), |
| numberOfChannelsNotSupported | (123), |
| parameterTypeNotSupported | (124), |
| priorityNotSupported | (125), |
| privateDataNotSupported | (126), |
| pulseDurationNotSupported | (127), |
| pulseRateNotSupported | (128), |
| remainRetryNotSupported | (129), |
| ringCountNotSupported | (130), |
| routeUsedNotSupported | (131), |
| securityNotSupported | (132), |
| swSubdomainCCIETypeNotSupported | (133), |
| toneDurationNotSupported | (134), |
| sysStatRegIDNotSupported | (135), |
| userDataNotSupported | (136), |
| privilegeViolationSpecifiedDevice | (8), |
| privilegeViolationActiveDevice | (137), |
| privilegeViolationCalledDevice | (9), |
| privilegeViolationCallingDevice | (10), |
| privilegeViolationCallToParkDevice | (138), |
| privilegeViolationDestinationDevice | (139), |
| privilegeViolationOnDivertingDevice | (140), |
| privilegeViolationHeldDevice | (141), |
| privilegeViolationOnParkToDevice | (142), |
| privilegeViolationPickUpDevice | (143), |
| routeingTimerExpired | (144), |
| requestIncompatibleWithObject | (2), |
| requestIncompatibleWithConnection | (145), |
| requestIncompatibleWithActiveConnection | (146), |
| requestIncompatibleWithHeldConnection | (147), |
| requestIncompatibleWithDevice | (148), |
| requestIncompatibleWithCalledDevice | (24), |
| requestIncompatibleWithCallingDevice | (23), |
| requestIncompatibleWithSubjectDevice | (149), |
| requestIncompatibleWithActiveDevice | (150), |
| requestIncompatibleWithCallToParkDevice | (151), |

```

requestIncompatibleWithDestinationDevice          (152),
requestIncompatibleWithDivertingDevice          (153),
requestIncompatibleWithHeldDevice               (154),
requestIncompatibleWithMedia                   ( 27),
requestIncompatibleWithParkToDevice            (155),
requestIncompatibleWithPickupDevice            (156),
serviceNotSupported                           ( 50),
securityViolation                            ( 19),
valueOutOfRange                             (  3),
agentStateOutOfRange                        (157),
alertTimeOutOfRange                         (158),
allocationOutOfRange                        (159),
autoAnswerOutOfRange                        (160),
bitRateOutOfRange                           (161),
callTypeOutOfRange                          (162),
connectionRateOutOfRange                   (163),
connectionReservoationOutOfRange           (164),
consultPurposeOutOfRange                   (165),
correlatorDataOutOfRange                  (166),
delayToleranceOutOfRange                  (167),
destinationDetectOutOfRange                (168),
digitModeOutOfRange                        (169),
doNotDisturbOutOfRange                    (170),
flowDirectionOutOfRange                   (171),
forwardingFlagOutOfRange                 (172),
forwardingTypeOutOfRange                  (173),
hookswitchComponentOutOfRange             (174),
hookswitchTypeOutOfRange                  (175),
lampModeOutOfRange                        (176),
messageWaitingSettingOutOfRange           (177),
micGainOutOfRange                         (178),
micMuteOutOfRange                         (179),
monitorTypeOutOfRange                     (180),
numberOfChannelsOutOfRange                (181),
participationTypeOutOfRange              (182),
pulseDurationOutOfRange                  (183),
pulseRateOutOfRange                       (184),
ringCountOutOfRange                      (185),
ringPatternOutOfRange                    (186),
ringVolumnOutOfRange                     (187),
routeingAlgorithmOutOfRange              (188),
speakerMuteOutOfRange                   (189),
speakerVolumeOutOfRange                  (190),
switchingCcittTypeOutOfRange            (191),
systemStatusOutOfRange                   (192),
toneCharacterOutOfRange                  (193),
toneDurationOutOfRange                   (194) }

```

```

SecurityErrors ::= ENUMERATED
{
    generic                      ( 0),
    sequenceNumberViolated       ( 1),
    timeStampViolated            ( 2),
    securityInfoViolated         ( 4) }

```

```

StateIncompatibilityErrors ::= ENUMERATED
{
    generic                      ( 1),
    invalidObjectState           ( 2),
    invalidDeviceState           (15),
    connectedCallExists          (16),
    invalidActiveDeviceState     (17),
}

```

```

invalidCalledDeviceState          (18),
invalidCallingDeviceState        (19),
invalidCallToParkDeviceState    (20),
invalidDestinationDeviceState   (21),
invalidDivertingDeviceState     (22),
invalidHeldDeviceState          (23),
invalidParkToDeviceState        (24),
invalidConnectionState          (25),
invalidActiveConnectionState    (26),
invalidConnectionIDForActiveCall ( 3),
invalidHeldConnectionState     (27),
noActiveCall                   ( 4),
noCallToAnswer                 ( 8),
noCallToClear                  ( 6),
noCallToComplete                ( 9),
noConnectionToClear             ( 7),
noHeldCall                      ( 5),
incorrectMsgState               (28),
beginningOfMsg                  (13),
endOfMsg                        (12),
msgSuspended                     (14),
notAbleToPlay                   (10),
notAbleToResume                 (11) }

```

```

SystemResourceAvailabilityErrors ::= ENUMERATED
{
    generic                      ( 1),
    resourceBusy                 ( 2),
    internalResourceBusy          ( 3),
    classifierBusy                ( 9),
    noMediaChannelsAvailable      (10),
    channelsInUseForBridgedDevices (11),
    channelsInUseForData          (12),
    toneDetectorBusy              (13),
    toneGeneratorBusy             (14),
    networkBusy                   ( 5),
    resourceOutOfService           ( 4),
    deviceOutOfService             (15),
    activeDeviceOutOfService       (16),
    calledDeviceOutOfService       (17),
    callingDeviceOutOfService      (18),
    callToParkDeviceOutOfService   (19),
    destinationDeviceOutOfService (20),
    divertingDeviceOutOfService    (21),
    heldDeviceOutOfService         (22),
    parkToDeviceOutOfService       (23),
    pickupDeviceOutOfService       (24),
    networkOutOfService            ( 6),
    otherResourceOutOfService      (25),
    resourceLimitExceeded          (26),
    overallMonitorLimitExceeded    ( 7),
    conferenceMemberLimitExceeded  ( 8),
    registrationLimitExceeded      (27),
    conferenceResourceCannotBeSatisfied (28),
    maxDevicesExceeded             (29),
    startTimeOutOfRange             (30),
    durationExceeded               (31) }

```

```

SubscribedResourceAvailabilityErrors ::= ENUMERATED
{
    generic                      ( 1),
    objectMonitorLimitExceeded    ( 2),

```

```
trunkLimitExceeded          ( 3),
outstandingReqLimitExceeded ( 4),
objectRegistrationLimitExceeded ( 5) }

PerformanceManagementErrors ::= ENUMERATED
{
    generic                  ( 1),
    performanceLimitExceeded ( 2) }

PrivateDataInfoErrors ::= ENUMERATED
{
    cSTAPrivateDataInfoError ( 1) }

UnspecifiedErrors ::= NULL

END -- of CSTA-error-definition
```

10 Event Report Service

```

CSTA-event-report-definitions
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-report-definitions( 21) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
CallClearedEvent FROM CSTA-call-cleared-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-cleared-event( 22) }
ConferencedEvent FROM CSTA-conferenced-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) conferenced-event( 23) }
ConnectionClearedEvent FROM CSTA-connection-cleared-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-cleared-event( 24) }
DeliveredEvent FROM CSTA-delivered-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) delivered-event( 25) }
DivertedEvent FROM CSTA-diverted-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) diverted-event( 26) }
EstablishedEvent FROM CSTA-established-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) established-event( 27) }
FailedEvent FROM CSTA-failed-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) failed-event( 28) }
HeldEvent FROM CSTA-held-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) held-event( 29) }
NetworkReachedEvent FROM CSTA-network-reached-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) network-reached-event( 30) }
OriginatedEvent FROM CSTA-originated-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) originated-event( 31) }
QueuedEvent FROM CSTA-queued-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) queued-event( 32) }
RetrievedEvent FROM CSTA-retrieved-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) retrieved-event( 33) }
ServiceInitiatedEvent FROM CSTA-service-initiated-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) service-initiated-event( 34) }
TransferredEvent FROM CSTA-transferred-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) transferred-event( 35) }
AutoAnswerEvent FROM CSTA-auto-answer-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) auto-answer-event( 40) }

```

```

CallInformationEvent FROM CSTA-call-information-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) call-information-event( 41) }

DoNotDisturbEvent FROM CSTA-do-not-disturb-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) do-not-disturb-event( 42) }

ForwardingEvent FROM CSTA-forwarding-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) forwarding-event( 43) }

MessageWaitingEvent FROM CSTA-message-waiting-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) message-waiting-event( 44) }

MicrophoneMuteEvent FROM CSTA-microphone-mute-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) microphone-mute-event( 45) }

SpeakerMuteEvent FROM CSTA-speaker-mute-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) speaker-mute-event( 46) }

SpeakerVolumeEvent FROM CSTA-speaker-volume-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) speaker-volume-event( 47) }

AgentBusyEvent FROM CSTA-agent-busy-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) agent-busy-event( 319) }

AgentLoggedOnEvent FROM CSTA-agent-logged-on-event
    { iso( 1) identified-organization( 3) icd-ecma( 12) --corrected 12/2000
      standard( 0) csta3( 285) agent-logged-on-event( 321) }

AgentLoggedOffEvent FROM CSTA-agent-logged-off-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) agent-logged-off-event( 320) }

AgentNotReadyEvent FROM CSTA-agent-not-ready-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) agent-not-ready-event( 322) }

AgentReadyEvent FROM CSTA-agent-ready-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) agent-ready-event( 323) }

AgentWorkingAfterCallEvent FROM CSTA-agent-working-after-call-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) agent-working-after-call-event( 324) }

BackInServiceEvent FROM CSTA-back-in-service-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) back-in-service-event( 333) }

OutOfServiceEvent FROM CSTA-out-of-service-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) out-of-service-event( 335) }

PrivateEvent FROM CSTA-private-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) private-event( 71) }

PresenceStateEvent FROM CSTA-presence-state-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) presence-state-event( 552) }

PlayEvent FROM CSTA-play-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) play( 75) }

RecordEvent FROM CSTA-record-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) record( 76) }

ReviewEvent FROM CSTA-review-event
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) review( 77) }

```

```
StopEvent FROM CSTA-stop-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) stop( 78 ) }

SuspendPlayEvent FROM CSTA-suspend-play-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) suspend-play( 79 ) }

SuspendRecordEvent FROM CSTA-suspend-record-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) suspend-record( 80 ) }

VoiceAttributesChangeEvent FROM CSTA-voice-attributes-change-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) voice-attributes-change-event( 74 ) }

MonitorCrossRefID FROM CSTA-status-reporting
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) status-reporting( 126 ) }

BridgedEvent FROM CSTA-bridged-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) bridged-event( 224 ) }

DigitsDialedEvent FROM CSTA-digits-dialed-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) digits-dialed-event( 225 ) }

NetworkCapabilitiesChangedEvent FROM CSTA-network-capabilities-changed-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) network-capabilities-changed-event( 226 ) }

OfferedEvent FROM CSTA-offered-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) offered-event( 227 ) }

ChargingEvent FROM CSTA-charging-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) charging-event( 240 ) }

DigitsGeneratedEvent FROM CSTA-digits-generated-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) digits-generated-event( 241 ) }

TelephonyTonesGeneratedEvent FROM CSTA-telephony-tones-generated-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) telephony-tones-generated-event( 242 ) }

ServiceCompletionFailureEvent FROM CSTA-service-completion-failure-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) service-completion-failure-event( 243 ) }

MediaAttachedEvent FROM CSTA-media-attached-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-attached-event( 246 ) }

MediaDetachedEvent FROM CSTA-media-detached-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-detached-event( 247 ) }

ButtonInformationEvent FROM CSTA-button-information-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) button-information-event( 283 ) }

ButtonPressEvent FROM CSTA-button-press-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) button-press-event( 284 ) }

DisplayUpdatedEvent FROM CSTA-display-updated-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) display-updated-event( 285 ) }

HookswitchEvent FROM CSTA-hookswitch-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) hookswitch-event( 286 ) }

LampModeEvent FROM CSTA-lamp-mode-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) lamp-mode-event( 287 ) }
```

```

MicrophoneGainEvent FROM CSTA-microphone-gain-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) microphone-gain-event( 288 ) }

RingerStatusEvent FROM CSTA-ringer-status-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) ringer-status-event( 289 ) }

AutoWorkModeEvent FROM CSTA-auto-work-mode-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) auto-work-mode-event( 326 ) }

CallBackEvent FROM CSTA-call-back-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) call-back-event( 327 ) }

CallBackMessageEvent FROM CSTA-call-back-message-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) call-back-message-event( 328 ) }

CallerIDStatusEvent FROM CSTA-caller-id-status-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) caller-id-status-event( 329 ) }

RouteingModeEvent FROM CSTA-routeing-mode-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) routeing-mode-event( 332 ) }

PartiallyInServiceEvent FROM CSTA-partially-in-service-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) partially-in-service( 379 ) }

BookmarkReachedEvent FROM CSTA-bookmark-reached-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) bookmark-reached-event( 517 ) }

CompletedEvent FROM CSTA-completed-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) completed-event( 518 ) }

DtmfDetectedEvent FROM CSTA-dtmf-detected-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) dtmf-detected-event( 519 ) }

EmptiedEvent FROM CSTA-emptied-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) emptied-event( 520 ) }

InterruptionDetectedEvent FROM CSTA-interruption-detected-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) interruption-detected-event( 521 ) }

NotRecognizedEvent FROM CSTA-not-recognized-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) not-recognized-event( 522 ) }

RecognizedEvent FROM CSTA-recognized-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) recognized-event( 523 ) }

SilenceTimeoutExpiredEvent FROM CSTA-silence-timeout-expired-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) silence-timeout-expired-event( 524 ) }

SpeechDetectedEvent FROM CSTA-speech-detected-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) speech-detected-event( 525 ) }

StartedEvent FROM CSTA-started-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) started-event( 526 ) }

VoiceErrorOccuredEvent FROM CSTA-voice-error-occurred-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) voice-error-occurred-event( 527 ) }

DeviceCapsChangedEvent FROM CSTA-device-capabilities-changed-event
    { iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
      standard( 0 ) csta3( 285 ) device-capabilities-changed-event( 334 ) };

```

```

CSTAEventReport OPERATION ::=

{   ARGUMENT           CSTAEVENTREPORTARGUMENT
    ALWAYS RESPONDS    FALSE
    CODE               local:21 }

CSTAEventReportArgument ::= SEQUENCE
{   crossRefIdentifier      MonitorCrossRefID,
    eventSpecificInfo        EventSpecificInfo }

EventSpecificInfo ::= CHOICE
{   callControlEvents        [ 0 ] CallControlEvents,
    callAssociatedEvents     [ 1 ] CallAssociatedEvents,
    mediaAttachmentEvents    [ 2 ] MediaAttachmentEvents,
    physicalDeviceFeatureEvents [ 3 ] PhysicalDeviceFeatureEvents,
    logicalDeviceFeatureEvents [ 4 ] LogicalDeviceFeatureEvents,
    deviceMaintenanceEvents  [ 5 ] DeviceMaintenanceEvents,
    voiceUnitEvents          [ 6 ] VoiceUnitEvents,
    vendorSpecEvents         [ 7 ] VendorSpecEvents }

CallControlEvents ::= CHOICE
{   bridged                [ 0 ] IMPLICIT BridgedEvent,
    callCleared              [ 1 ] IMPLICIT CallClearedEvent,
    conferenced              [ 2 ] IMPLICIT ConferencedEvent,
    connectionCleared        [ 3 ] IMPLICIT ConnectionClearedEvent,
    delivered                [ 4 ] IMPLICIT DeliveredEvent,
    digitsDialed             [ 5 ] IMPLICIT DigitsDialedEvent,
    diverted                 [ 6 ] IMPLICIT DivertedEvent,
    established              [ 7 ] IMPLICIT EstablishedEvent,
    failed                   [ 8 ] IMPLICIT FailedEvent,
    held                     [ 9 ] IMPLICIT HeldEvent,
    networkCapabilitiesChanged [ 10 ] IMPLICIT NetworkCapabilitiesChangedEvent,
    networkReached            [ 11 ] IMPLICIT NetworkReachedEvent,
    offered                  [ 12 ] IMPLICIT OfferedEvent,
    originated               [ 13 ] IMPLICIT OriginatedEvent,
    queued                   [ 14 ] IMPLICIT QueuedEvent,
    retrieved                [ 15 ] IMPLICIT RetrievedEvent,
    serviceInitiated         [ 16 ] IMPLICIT ServiceInitiatedEvent,
    transferred               [ 17 ] IMPLICIT TransferredEvent }

CallAssociatedEvents ::= CHOICE
{   callInformation          [ 0 ] IMPLICIT CallInformationEvent,
    charging                 [ 1 ] IMPLICIT ChargingEvent,
    digitsGeneratedEvent      [ 2 ] IMPLICIT DigitsGeneratedEvent,
    telephonyTonesGeneratedEvent [ 3 ] IMPLICIT TelephonyTonesGeneratedEvent,
    serviceCompletionFailure [ 4 ] IMPLICIT ServiceCompletionFailureEvent }

MediaAttachmentEvents ::= CHOICE
{   mediaAttached             [ 0 ] IMPLICIT MediaAttachedEvent,
    mediaDetached              [ 1 ] IMPLICIT MediaDetachedEvent }

PhysicalDeviceFeatureEvents ::= CHOICE
{   buttonInformation         [ 0 ] IMPLICIT ButtonInformationEvent,
    buttonPress                [ 1 ] IMPLICIT ButtonPressEvent,
    displayUpdated              [ 2 ] IMPLICIT DisplayUpdatedEvent,
    hookswitch                 [ 3 ] IMPLICIT HookswitchEvent,
    lampMode                   [ 4 ] IMPLICIT LampModeEvent,
    messageWaiting              [ 5 ] IMPLICIT MessageWaitingEvent,
    microphoneGain              [ 6 ] IMPLICIT MicrophoneGainEvent,
    microphoneMute              [ 7 ] IMPLICIT MicrophoneMuteEvent,
}

```

```

ringerStatus [ 8] IMPLICIT RingerStatusEvent,
speakerMute [ 9] IMPLICIT SpeakerMuteEvent,
speakerVolume [10] IMPLICIT SpeakerVolumeEvent }

LogicalDeviceFeatureEvents ::= CHOICE
{ agentBusy [ 0] IMPLICIT AgentBusyEvent,
  agentLoggedOn [ 1] IMPLICIT AgentLoggedOnEvent,
  agentLoggedOff [ 2] IMPLICIT AgentLoggedOffEvent,
  agentNotReady [ 3] IMPLICIT AgentNotReadyEvent,
  agentReady [ 4] IMPLICIT AgentReadyEvent,
  agentWorkingAfterCall [ 5] IMPLICIT AgentWorkingAfterCallEvent,
  autoAnswer [ 6] IMPLICIT AutoAnswerEvent,
  autoWorkMode [ 7] IMPLICIT AutoWorkModeEvent,
  callBack [ 8] IMPLICITCallBackEvent,
  callBackMessage [ 9] IMPLICITCallBackMessageEvent,
  callerIDStatus [10] IMPLICIT CallerIDStatusEvent,
  doNotDisturb [11] IMPLICIT DoNotDisturbEvent,
  forwarding [12] IMPLICIT ForwardingEvent,
  presenceState [14] IMPLICIT PresenceStateEvent,
  routeingMode [13] IMPLICIT RouteingModeEvent }

DeviceMaintenanceEvents ::= CHOICE
{ backInService [ 0] IMPLICIT BackInServiceEvent,
  deviceCapabilityChanged [ 1] IMPLICIT DeviceCapsChangedEvent,
  outOfService [ 2] IMPLICIT OutOfServiceEvent,
  partiallyInService [ 3] IMPLICIT PartiallyInServiceEvent }

VoiceUnitEvents ::= CHOICE
{ bookmarkReached [ 7] IMPLICIT BookmarkReachedEvent,
  completed [ 8] IMPLICIT CompletedEvent,
  dtmfDetected [ 9] IMPLICIT DtmfDetectedEvent,
  emptied [10] IMPLICIT EmptiedEvent,
  interruptionDetected [11] IMPLICIT InterruptionDetectedEvent,
  notRecognized [12] IMPLICIT NotRecognizedEvent,
  play [ 0] IMPLICIT PlayEvent,
  recognized [13] IMPLICIT RecognizedEvent,
  record [ 1] IMPLICIT RecordEvent,
  review [ 2] IMPLICIT ReviewEvent,
  silenceTimeoutExpired [14] IMPLICIT SilenceTimeoutExpiredEvent,
  speechDetected [15] IMPLICIT SpeechDetectedEvent,
  started [16] IMPLICIT StartedEvent,
  stop [ 3] IMPLICIT StopEvent,
  suspendPlay [ 4] IMPLICIT SuspendPlayEvent,
  suspendRecord [ 5] IMPLICIT SuspendRecordEvent,
  voiceAttributesChange [ 6] IMPLICIT VoiceAttributesChangeEvent,
  voiceErrorOccured [17] IMPLICIT VoiceErrorOccuredEvent }

VendorSpecEvents ::= CHOICE
{ privateEvent [ 0] IMPLICIT PrivateEvent }

END -- of CSTA-event-report-definitions

```

11 Capability exchange services

11.1 Services

11.1.1 Get CSTA-Features

```

ioServicesServList      [10] IOServicesServList           OPTIONAL,
dataCollectionServList [11] DataCollectionServList     OPTIONAL,
voiceServList          [12] VoiceUnitServList        OPTIONAL,
cDRServList            [13] CDRServList             OPTIONAL,
vendorSpecificServList [14] VendorSpecificServList   OPTIONAL,
locationServicesServList [15] LocationServicesServList OPTIONAL } ,
supportedEvents SEQUENCE
{
    callControlEvtsList      [0] CallControlEvtsList      OPTIONAL,
    callAssociatedEvtsList   [1] CallAssociatedEvtsList   OPTIONAL,
    mediaEvtsList            [2] MediaEvtsList           OPTIONAL,
    physDevEvtsList          [3] PhysDevEvtsList         OPTIONAL,
    logicalEvtsList          [4] LogicalEvtsList        OPTIONAL,
    deviceMaintEvtsList      [5] DeviceMaintEvtsList     OPTIONAL,
    voiceEvtsList            [6] VoiceUnitEvtsList       OPTIONAL,
    vendorSpecificEvtsList   [7] VendorSpecificEvtsList  OPTIONAL } OPTIONAL,
extensions              CSTACCommonArguments          OPTIONAL }

```

END -- of CSTA-get-csta-features-service

11.1.2 Get logical device information

```

CSTA-get-logical-device-information
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) get-logical-device-information( 201) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
    { joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) device-identifiers( 123) }
MonitorFilter, MonitorMediaClass FROM CSTA-status-reporting
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) extension-types( 129) }
DeviceCategory, GroupDeviceAttributes, NamedDeviceTypes, ACDModels, AgentLogOnModels, AppearanceType,
MiscMonitorCaps, TransAndConfSetup, MediaServiceCapsList, RouteingServList, LogDevServList,
LogDevEvtsList, DeviceMaintEvtsList
FROM CSTA-capability-exchange
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) capability-exchange( 131) }
NumberOfChannels, MaxChannelBind, ConnectionRateList, DelayToleranceList
FROM CSTA-data-call-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) data-call-types( 134) };

getLogicalDeviceInformation OPERATION ::=
{
    ARGUMENT          GetLogicalDeviceInformationArgument
    RESULT            GetLogicalDeviceInformationResult
    ERRORS           {universalFailure }
    CODE              local:201 }

GetLogicalDeviceInformationArgument ::= SEQUENCE
{
    device                  DeviceID,
    extensions             CSTACurrentArguments
                           OPTIONAL }

GetLogicalDeviceInformationResult ::= SEQUENCE
{
    deviceCategory          [ 0] IMPLICIT DeviceCategory
                           DEFAULT station,
    groupDeviceAttributes   [ 1] IMPLICIT GroupDeviceAttributes
                           OPTIONAL,
    namedDeviceTypes        [ 2] IMPLICIT NamedDeviceTypes
                           OPTIONAL,
    shortFormDeviceID      [ 3] DeviceID
                           OPTIONAL,
    hasPhysicalElement     BOOLEAN,
    acdModels               ACDModels,
    agentLogOnModels        [ 4] IMPLICIT AgentLogOnModels
                           OPTIONAL,
    appearanceAddressable  BOOLEAN,
    appearanceType          AppearanceType,
    appearanceList          [ 5] IMPLICIT SEQUENCE OF IA5String
                           OPTIONAL,
    otherPhysicalDeviceList [ 6] IMPLICIT SEQUENCE OF DeviceID
                           OPTIONAL,
    miscMonitorCaps         [ 7] IMPLICIT MiscMonitorCaps
                           OPTIONAL,
}

```

| | | | |
|---------------------------------|----------------|----------------------|------------|
| associatedGroupList | [8] IMPLICIT | SEQUENCE OF DeviceID | OPTIONAL, |
| maxCallbacks | [9] IMPLICIT | INTEGER | OPTIONAL, |
| maxAutoAnswerRings | [10] IMPLICIT | INTEGER | OPTIONAL, |
| maxActiveCalls | [11] IMPLICIT | INTEGER | OPTIONAL, |
| maxHeldCalls | [12] IMPLICIT | INTEGER | OPTIONAL, |
| maxFwdSettings | [13] IMPLICIT | INTEGER | OPTIONAL, |
| maxDevicesInConf | [14] IMPLICIT | INTEGER | OPTIONAL, |
| transAndConfSetup | [15] IMPLICIT | TransAndConfSetup | OPTIONAL, |
| deviceOnDeviceMonitorFilter | [16] IMPLICIT | MonitorFilter | OPTIONAL, |
| deviceOnConnectionMonitorFilter | [17] IMPLICIT | MonitorFilter | OPTIONAL, |
| callOnDeviceMonitorFilter | [18] IMPLICIT | MonitorFilter | OPTIONAL, |
| callOnConnectionMonitorFilter | [19] IMPLICIT | MonitorFilter | OPTIONAL, |
| mediaClassSupport | [20] IMPLICIT | MonitorMediaClass | OPTIONAL, |
| mediaServiceCapsList | [21] IMPLICIT | MediaServiceCapsList | OPTIONAL, |
| connectionRateList | [22] IMPLICIT | ConnectionRateList | OPTIONAL, |
| delayToleranceList | [23] IMPLICIT | DelayToleranceList | OPTIONAL, |
| numberOfChannels | [24] IMPLICIT | NumberOfChannels | OPTIONAL, |
| maxChannelBind | [25] IMPLICIT | MaxChannelBind | OPTIONAL, |
| routeingServList | [26] IMPLICIT | RouteingServList | OPTIONAL, |
| logDevServList | [27] IMPLICIT | LogDevServList | OPTIONAL, |
| logDevEvtsList | [28] IMPLICIT | LogDevEvtsList | OPTIONAL, |
| deviceMaintEvtsList | [29] IMPLICIT | DeviceMaintEvtsList | OPTIONAL, |
| extensions | | CSTACommonArguments | OPTIONAL } |

END -- of CSTA-get-logical-device-information

11.1.3 Get physical device information

```

CSTA-get-physical-device-information
    { iso( 1) identified-organization( 3) icd-ecma( 12)
        standard( 0) csta3( 285) get-physical-device-information( 202) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
    { joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
    { iso( 1) identified-organization( 3) icd-ecma( 12)
        standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
    { iso( 1) identified-organization( 3) icd-ecma( 12)
        standard( 0) csta3( 285) device-identifiers( 123) }
MonitorFilter FROM CSTA-status-reporting
    { iso( 1) identified-organization( 3) icd-ecma( 12)
        standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
        standard( 0) csta3( 285) extension-types( 129) }
DeviceCategory, GroupDeviceAttributes, NamedDeviceTypes, PhysDevServList, PhysDevEvtsList
FROM CSTA-capability-exchange
    { iso( 1) identified-organization( 3) icd-ecma( 12)
        standard( 0) csta3( 285) capability-exchange( 131) };

getPhysicalDeviceInformation OPERATION ::=
{   ARGUMENT          GetPhysicalDeviceInformationArgument
    RESULT            GetPhysicalDeviceInformationResult
    ERRORS           {universalFailure }
    CODE             local:202 }

GetPhysicalDeviceInformationArgument ::= SEQUENCE
{   device                  DeviceID,
    extensions              CSTACurrentArguments
                            OPTIONAL }

GetPhysicalDeviceInformationResult ::= SEQUENCE
{   deviceCategory          [ 0] IMPLICIT DeviceCategory      DEFAULT station,
    groupDeviceAttributes    [ 1] IMPLICIT GroupDeviceAttributes OPTIONAL,
    namedDeviceTypes         [ 2] IMPLICIT NamedDeviceTypes  OPTIONAL,
    hasLogicalElement        BOOLEAN,
    otherLogicalDeviceList   [ 3] IMPLICIT SEQUENCE OF DeviceID  OPTIONAL,
    deviceModelName          [ 4] IMPLICIT IA5String (SIZE(0..64)) OPTIONAL,
    deviceOnDeviceMonitorFilter [ 5] IMPLICIT MonitorFilter  OPTIONAL,
    deviceOnConnectionMonitorFilter [ 6] IMPLICIT MonitorFilter  OPTIONAL,
    callOnDeviceMonitorFilter [ 7] IMPLICIT MonitorFilter  OPTIONAL,
    callOnConnectionMonitorFilter [ 8] IMPLICIT MonitorFilter  OPTIONAL,
    maxDisplays              [ 9] IMPLICIT INTEGER        OPTIONAL,
    maxButtons               [10] IMPLICIT INTEGER        OPTIONAL,
    maxLamps                 [11] IMPLICIT INTEGER        OPTIONAL,
    maxRingPatterns          [12] IMPLICIT INTEGER        OPTIONAL,
    physDevServList          [13] IMPLICIT PhysDevServList OPTIONAL,
    physDevEvtsList          [14] IMPLICIT PhysDevEvtsList OPTIONAL,
    extensions               CSTACurrentArguments  OPTIONAL }

```

END -- of CSTA-get-physical-device-information

11.1.4 Get switching function capabilities

```

CSTA-get-switching-function-capabilities
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) get-switching-function-capabilities( 203) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) error-definition( 120) }
MonitorMediaClass, MonitorFilter FROM CSTA-status-reporting
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) status-reporting( 126) }
TimeInfo FROM CSTA-security
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) security( 128) }
CSTACurrentArguments FROM CSTA-extension-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics FROM CSTA-call-control
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) call-control( 130) }
ACDModels, CapExchangeServList, DeviceIDFormat, FilterThreshold,
IgnoreUnsupportedParameters, CallControlServList, CallControlEvtsList,
CallAssociatedServList, CallAssociatedEvtsList, MediaServList, MediaEvtsList,
RouteingServList, PhysDevEvtsList, PhysDevServList, LogicalEvtsList, LogicalServList,
DeviceMaintEvtsList, IOServicesServList, DataCollectionServList, VoiceUnitServList,
VoiceUnitEvtsList, CDRServList, VendorSpecificServList, VendorSpecificEvtsList,
MaxLengthParameters, TransAndConfSetup, MediaServiceCapsList, MiscMonitorCaps,
MonitoringServList, PauseTime, SnapshotServList, SwAppearanceAddressability,
MaxLengthParametersContinued, SwAppearanceTypes, SwDomainFeatures, SystemStatusServList,
TimeStampMode, LocationServicesServList
FROM CSTA-capability-exchange
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) capability-exchange( 131) }

NumberOfChannels, MaxChannelBind, ConnectionRateList, DelayToleranceList

FROM CSTA-data-call-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) data-call-types( 134) };

getSwitchingFunctionCapabilities OPERATION ::=
{
    ARGUMENT      GetSwitchingFunctionCapsArgument
    RESULT        GetSwitchingFunctionCapsResult
    ERRORS        {universalFailure }
    CODE          local:203 }

GetSwitchingFunctionCapsArgument ::= CHOICE
{
    extensions    CSTACurrentArguments,
    noData       NULL }

GetSwitchingFunctionCapsResult ::= SEQUENCE

```

```

{
    switchingSubDomainName           IA5String (SIZE(0..64)),
    manufacturerName                IA5String (SIZE(0..64)),
    profiles                         Profiles,
    deviceIDFormat                  DeviceIDFormat,
    swDomainFeatures                 SwDomainFeatures,
    swAppearanceAddressability      SwAppearanceAddressability,
    swAppearanceTypes                SwAppearanceTypes,
    ignoreUnsupportedParameters     IgnoreUnsupportedParameters,
    callCharacteristicsSupported   [ 0 ] IMPLICIT CallCharacteristics          OPTIONAL,
    mediaClassSupport                [ 1 ] IMPLICIT MonitorMediaClass        OPTIONAL,
    numberOfChannels                 [ 2 ] IMPLICIT NumberOfChannels        OPTIONAL,
    maxChannelBind                  [ 3 ] IMPLICIT MaxChannelBind         OPTIONAL,
    miscMediaCallCharacteristics   [ 4 ] IMPLICIT MiscMediaCallCharacteristics OPTIONAL,
    connectionRateList              [ 5 ] IMPLICIT ConnectionRateList       OPTIONAL,
    delayToleranceList              [ 6 ] IMPLICIT DelayToleranceList      OPTIONAL,
    pauseTime                        [ 7 ] IMPLICIT PauseTime             OPTIONAL,
    currentTime                      [ 8 ] IMPLICIT TimeInfo              OPTIONAL,
    messageSeqNumbers               [ 9 ] IMPLICIT MessageSeqNumbers        OPTIONAL,
    timeStampMode                   [10] IMPLICITTimeStampMode          OPTIONAL,
    securityMode                     [11] IMPLICIT SecurityMode          OPTIONAL,
    securityFormat                   [12] IMPLICIT SecurityFormat         OPTIONAL,
    privateDataFormat                [13] IMPLICIT SecurityFormat         OPTIONAL,
    transAndConfSetup                [14] IMPLICIT TransAndConfSetup        OPTIONAL,
    monitorFilterItems              [15] IMPLICIT MonitorFilterItems       OPTIONAL,
    miscMonitorCaps                 [16] IMPLICIT MiscMonitorCaps        OPTIONAL,
    correlatorDataSupported        [17] IMPLICIT BOOLEAN                OPTIONAL,
    dynamicFeatureSupported        [18] IMPLICIT DynamicFeatureSupported OPTIONAL,
    callLinkageOptions              [28] IMPLICIT CallLinkageOptions       OPTIONAL,
    aCDModels                        [19] IMPLICIT ACDModels             OPTIONAL,
    agentLogOnModels                [20] IMPLICIT AgentLogOnModels        OPTIONAL,
    agentStateModels                [21] IMPLICIT AgentStateModels       OPTIONAL,
    connectionView                  ConnectionView,
    maxLengthParameters             maxLengthParameters,
    maxLengthParametersContinued  [28] IMPLICIT maxLengthParametersContinued OPTIONAL,
    serveEvtsList                   [22] IMPLICIT ServeEvtsList          OPTIONAL,
    privateDataVersionList          [23] IMPLICIT PrivateDataVersionList    OPTIONAL,
    systemStatusTimer               [24] IMPLICIT INTEGER (0..180)          OPTIONAL,
    simpleThreshold                 [25] IMPLICIT INTEGER                OPTIONAL,
    filterThreshold                 [26] IMPLICIT FilterThreshold         OPTIONAL,
    mediaServiceCapsList            [27] IMPLICIT MediaServiceCapsList    OPTIONAL,
    maxDeviceHistoryLength          [29] IMPLICIT INTEGER                OPTIONAL,
    maxDestinationDevicesForDeflect [30] IMPLICIT INTEGER                OPTIONAL,
    extensions                       CSTACommonArguments
}

MonitorFilterItems ::= SEQUENCE
{
    deviceOnDeviceMonitorFilter     [0] IMPLICIT MonitorFilter          OPTIONAL,
    deviceOnConnectionMonitorFilter [1] IMPLICIT MonitorFilter          OPTIONAL,
    callOnDeviceMonitorFilter       [2] IMPLICIT MonitorFilter          OPTIONAL,
    callOnConnectionMonitorFilter   [3] IMPLICIT MonitorFilter          OPTIONAL
}

MessageSeqNumbers ::= BIT STRING
{
    allEvents                      (0),
    allAcks                        (1),
    allServReqs                     (2)
}

SecurityMode ::= ENUMERATED
{
    allEvents                      (0),
    allAcks                        (1),
    allServReqs                     (2)
}

```

```

SecurityFormat ::= BIT STRING
{
    octetStringFromSF                (0),
    otherTypeFromSF                 (1),
    octetStringToSF                 (2),
    otherTypeToSF                  (3) }

Profiles ::= BIT STRING
{
    basicTelephonyProfile          ( 0),
    routeingProfile                 ( 1),
    levellaVoiceBrowserProfile     ( 2),
    levell1bVoiceBrowserProfile    ( 3),
    level2VoiceBrowserProfile      ( 4),
    minimalUaCSTAControlProfile   ( 5),
    basicUaCSTAControlProfile     ( 6),
    advancedUaCSTAControlProfile  ( 7),
    conferencingUaCSTAControlProfile ( 8),
    basicUaCSTADeviceFeatureProfile ( 9),
    advancedUaCSTADeviceFeatureProfile (10),
    speakerUACSTADeviceFeatureProfile (11),
    basicSpeechServiceProfile      (12),
    advancedSpeechServiceProfile   (13) }

DynamicFeatureSupported ::= ENUMERATED
{
    none                           (0),
    all                            (1),
    some                           (2) }

CallLinkageOptions ::= BIT STRING
{
    callLinkageFeatureSupported    (0),
    threadLinkageFeatureSupported (1) }

AgentLogOnModels ::= BIT STRING
{
    logOnACDDevice                  (0),
    logOnACDGroupExplOneStep       (1),
    logOnACDGroupExplTwoSteps      (2),
    logOnACDGroupImplOneStep       (3) }

AgentStateModels ::= BIT STRING
{
    multiState                     (0),
    multiStateSemiIndependentLinked (1),
    agentOriented                  (2) }

ConnectionView ::= ENUMERATED
{
    fixed                          (0),
    local                         (1) }

ServEvtsList ::= SEQUENCE
{
    capExchangeServList           [ 0] IMPLICIT CapExchangeServList      OPTIONAL,
    systemServList                [ 1] IMPLICIT SystemStatusServList    OPTIONAL,
    monitoringServList            [ 2] IMPLICIT MonitoringServList    OPTIONAL,
    snapshotServList              [ 3] IMPLICIT SnapshotServList      OPTIONAL,
    callControlServList           [ 4] IMPLICIT CallControlServList    OPTIONAL,
    callControlEvtsList           [ 5] IMPLICIT CallControlEvtsList    OPTIONAL,
    callAssociatedServList        [ 6] IMPLICIT CallAssociatedServList OPTIONAL,
    callAssociatedEvtsList        [ 7] IMPLICIT CallAssociatedEvtsList OPTIONAL,
    mediaServList                 [ 8] IMPLICIT MediaServList        OPTIONAL,
    mediaEvtsList                 [ 9] IMPLICIT MediaEvtsList        OPTIONAL,
    routeingServList              [10] IMPLICIT RouteingServList      OPTIONAL,
    physDevServList               [11] IMPLICIT PhysDevServList      OPTIONAL,
    physDevEvtsList               [12] IMPLICIT PhysDevEvtsList      OPTIONAL,
}

```

```

logicalServList           [13] IMPLICIT    LogicalServList          OPTIONAL,
logicalEvtsList           [14] IMPLICIT    LogicalEvtsList         OPTIONAL,
deviceMaintEvtsList       [15] IMPLICIT    DeviceMaintEvtsList   OPTIONAL,
ioServicesServList        [16] IMPLICIT    IOServicesServList    OPTIONAL,
dataCollectionServList    [17] IMPLICIT    DataCollectionServList OPTIONAL,
voiceUnitServList          [18] IMPLICIT    VoiceUnitServList     OPTIONAL,
voiceUnitEvtsList         [19] IMPLICIT    VoiceUnitEvtsList    OPTIONAL,
cdrServList               [20] IMPLICIT    CDRServList           OPTIONAL,
vendorSpecificServList    [21] IMPLICIT    VendorSpecificServList OPTIONAL,
vendorSpecificEvtsList    [22] IMPLICIT    VendorSpecificEvtsList OPTIONAL,
statusReportingServList   [23] IMPLICIT    StatusReportingServList OPTIONAL,
locationServList          [24] IMPLICIT    LocationServicesServList OPTIONAL }

StatusReportingServList ::= SEQUENCE
{
    monitoringServices      [ 0] IMPLICIT    MonitoringServList      OPTIONAL,
    snapshotServices         [ 1] IMPLICIT    SnapshotServList       OPTIONAL,
    systemServices           [ 2] IMPLICIT    SystemStatusServList  OPTIONAL
}

MiscMediaCallCharacteristics ::= BIT STRING
{
    supportAdjustment        (0)
}

PrivateDataVersionList ::= SEQUENCE OF INTEGER

END -- of CSTA-get-switching-function-capabilities

```

11.1.5 Get switching function devices

```

CSTA-get-switching-function-devices
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) get-switching-function-devices( 204 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) capability-exchange( 131 ) };

getSwitchingFunctionDevices OPERATION ::=
{   ARGUMENT          GetSwitchingFunctionDevicesArgument
    RESULT            GetSwitchingFunctionDevicesResult
    ERRORS           {universalFailure }
    CODE             local:204 }

GetSwitchingFunctionDevicesArgument ::= SEQUENCE
{   requestedDeviceID        DeviceID           OPTIONAL,
    requestedDeviceCategory   ReqDeviceCategory  OPTIONAL,
    extensions                CSTACurrentArguments OPTIONAL }

GetSwitchingFunctionDevicesResult ::= SEQUENCE
{   serviceCrossRefID        ServiceCrossRefID,
    extensions                CSTACurrentArguments OPTIONAL }

ReqDeviceCategory ::= ENUMERATED
{   acc                      ( 0 ),
   conference               (11),
   dtmfIV                  (12),
   genericIV                (13),
   groupACD                 ( 1),
   groupHunt                ( 2),
   groupPick                ( 3),
   groupOther                ( 4),
   groupUser                (14),
   listenerIV               (15),
   messageIV                (16),
   networkInterface          ( 5),
   park                      ( 6),
   promptIV                 (17),
   promptQueue               (18),
   routeingDevice            ( 7),
   station                   ( 8),
}

```

```
voiceUnit          ( 9 ),  
other             (10) }
```

```
END -- of CSTA-get-switching-function-devices
```

11.1.6 Switching function devices

```

CSTA-switching-function-devices
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) switching-function-devices( 205 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
ServiceCrossRefID, DeviceCategory, NamedDeviceTypes FROM CSTA-capability-exchange
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) capability-exchange( 131 ) };

switchingFunctionDevices OPERATION ::=
{
  ARGUMENT          SwitchingFunctionDevicesArgument
  ERRORS            {universalFailure }
  CODE              local:205 }

SwitchingFunctionDevicesArgument ::= SEQUENCE
{
  serviceCrossRefID      ServiceCrossRefID,
  segmentID               INTEGER                           OPTIONAL,
  lastSegment             BOOLEAN,
  deviceList              DeviceList,
  extensions              CSTACurrentArguments          OPTIONAL }

DeviceList ::= SEQUENCE OF SEQUENCE
{
  deviceID           DeviceID,
  deviceCategory     [ 0 ] IMPLICIT DeviceCategory    DEFAULT station,
  namedDeviceTypes   [ 1 ] IMPLICIT NamedDeviceTypes  OPTIONAL,
  deviceAttributes   DeviceAttributes                 OPTIONAL,
  devicemodelName    IA5String (SIZE(0..64))        OPTIONAL,
  nidGroup          DeviceID                         OPTIONAL }

DeviceAttributes ::= BIT STRING
{
  mediaAccessDevice   ( 0 ),
  routeingDevice     ( 1 ),
  groupACD           ( 2 ),
  groupHunt          ( 3 ),
  groupPick          ( 4 ) }

END -- of CSTA-switching-function-devices

```

12 System services

12.1 Registration services

12.1.1 Change system status filter

```

CSTA-change-system-status-filter
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) change-system-status-filter( 206) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SysStatRegisterID, SystemStatus FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

changeSysStatFilter OPERATION ::=
{
  ARGUMENT          ChangeSysStatFilterArg
  RESULT            ChangeSysStatFilterRes
  ERRORS           {universalFailure }
  CODE              local: 206 }

ChangeSysStatFilterArg ::= SEQUENCE
{
  sysStatRegisterID      SysStatRegisterID,
  requestedStatusFilter   SystemStatus,
  extensions             CSTACurrentArguments OPTIONAL }

ChangeSysStatFilterRes ::= SEQUENCE
{
  actualStatusFilter     SystemStatus,
  extensions             CSTACurrentArguments OPTIONAL }

END -- of CSTA-change-system-status-filter

```

12.1.2 System register

```

CSTA-system-register
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) system-register( 207) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
    { joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) error-definition( 120) }

SysStatRegisterID FROM CSTA-device-feature-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) device-feature-types( 127) }

CSTACurrentArguments FROM CSTA-extension-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) extension-types( 129) };

systemRegister OPERATION ::=

{   ARGUMENT      SystemRegisterArgument
   RESULT        SystemRegisterResult
   ERRORS        {universalFailure }
   CODE          local: 207 }

SystemRegisterArgument ::= SEQUENCE
{   requestTypes           RequestTypes,
   requestedStatusFilter   StatusFilter           OPTIONAL,
   extensions              CSTACurrentArguments OPTIONAL }

SystemRegisterResult ::= SEQUENCE
{   sysStatRegisterID       SysStatRegisterID,
   actualStatusFilter       StatusFilter           OPTIONAL,
   extensions               CSTACurrentArguments OPTIONAL }

StatusFilter ::= BIT STRING
{   initializing            ( 0),
   enabled                 ( 1),
   normal                  ( 2),
   messageLost             ( 3),
   disabled                ( 4),
   partiallyDisabled       ( 5),
   overloadImminent        ( 6),
   overloadReached         ( 7),
   overloadRelieved        ( 8) }

RequestTypes ::= BIT STRING
{   systemStatus            ( 0),
   requestSystemStatus     ( 1),
   switchingFunctionCapsChanged ( 2),
   switchingFunctionDevicesChanged ( 3) }

END -- of CSTA-system-register

```

12.1.3 System register abort

```

CSTA-system-register-abort
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) system-register-abort( 208) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

SysStatRegisterID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

systemRegisterAbort OPERATION ::=
{
  ARGUMENT          SystemRegisterAbortArgument
  ERRORS            {universalFailure }
  ALWAYS RESPONDS   FALSE
  CODE              local: 208 }

SystemRegisterAbortArgument ::= SEQUENCE
{   sysStatRegisterID    SysStatRegisterID,
  extensions           CSTACurrentArguments      OPTIONAL }

END -- of CSTA-system-register-abort

```

12.1.4 System register cancel

```

CSTA-system-register-cancel
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) system-register-cancel( 209) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) error-definition( 120) }

SysStatRegisterID FROM CSTA-device-feature-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) device-feature-types( 127) }

CSTACurrentArguments FROM CSTA-extension-types
    { iso( 1) identified-organization( 3) icd-ecma( 12)
      standard( 0) csta3( 285) extension-types( 129) };

systemRegisterCancel OPERATION ::=
{
    ARGUMENT          SystemRegisterCancelArgument
    RESULT            SystemRegisterCancelResult
    ERRORS           {universalFailure }
    CODE              local: 209
}

SystemRegisterCancelArgument ::= SEQUENCE
{
    sysStatRegisterID   SysStatRegisterID,
    extensions         CSTACurrentArguments        OPTIONAL
}

SystemRegisterCancelResult ::= CHOICE
{
    extensions         CSTACurrentArguments,
    noData             NULL
}

END -- of CSTA-system-register-cancel

```

12.2 Services

12.2.1 Request system status

```

CSTA-request-system-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) request-system-status( 210) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SysStatRegisterID, SystemStatus FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

requestSysStat OPERATION ::=
{
  ARGUMENT          RequestSysStatArg
  RESULT            RequestSysStatRes
  ERRORS           {universalFailure }
  CODE              local: 210
}

RequestSysStatArg ::= SEQUENCE
{
  sysStatRegisterID      SysStatRegisterID      OPTIONAL,
  extensions             CSTACurrentArguments  OPTIONAL
}

RequestSysStatRes ::= SEQUENCE
{
  systemStatus          SystemStatus,
  extensions            CSTACurrentArguments  OPTIONAL
}

END -- of CSTA-request-system-status

```

12.2.2 System status

```

CSTA-system-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) system-status( 211) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SysStatRegisterID, SystemStatus FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

systemStatus OPERATION ::=

{ ARGUMENT          SystemStatusArg
  RESULT            SystemStatusRes
  ERRORS           {universalFailure }
  CODE              local: 211 }

SystemStatusArg ::= SEQUENCE
{ sysStatRegisterID   SysStatRegisterID           OPTIONAL,
  systemStatus        SystemStatus,
  extensions         CSTACurrentArguments        OPTIONAL }

SystemStatusRes ::= CHOICE
{ extensions         CSTACurrentArguments,
  noData             NULL }

END -- of CSTA-system-status

```

12.2.3 Switching function capabilities changed

```

CSTA-switching-function-capabilities-changed
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) switching-function-capabilities-changed( 212) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SysStatRegisterID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

swFunctionCapsChanged OPERATION ::=
{ ARGUMENT      SwFunctionCapsChangedArg
  RESULT        SwFunctionCapsChangedRes
  ERRORS        {universalFailure }
  CODE          local: 212 }

SwFunctionCapsChangedArg ::= SEQUENCE
{ sysStatRegisterID           SysStatRegisterID           OPTIONAL,
  extensions                  CSTACurrentArguments    OPTIONAL }

SwFunctionCapsChangedRes ::= CHOICE
{ extensions                  CSTACurrentArguments,
  noData                      NULL }

END -- of CSTA-switching-function-capabilities-changed

```

12.2.4 Switching function devices changed

```

CSTA-switching-function-devices-changed
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) switching-function-devices-changed( 213) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SysStatRegisterID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

swFunctionDevicesChanged OPERATION ::=

{ ARGUMENT      SwFunctionDevicesChangedArg
  RESULT        SwFunctionDevicesChangedRes
  ERRORS        {universalFailure }
  CODE          local: 213 }

SwFunctionDevicesChangedArg ::= SEQUENCE
{ sysStatRegisterID      SysStatRegisterID      OPTIONAL,
  extensions            CSTACurrentArguments OPTIONAL }

SwFunctionDevicesChangedRes ::= CHOICE
{ extensions           CSTACurrentArguments,
  noData                NULL }

END -- of CSTA-switching-function-devices-changed

```

12.2.5 Get Registrations

```

CSTA-get-registrations
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-registrations( 371) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
RegistrationTypeList FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) }
RegistrationList FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getRegistrations OPERATION ::=
{ ARGUMENT      GetRegistrationsArg
  RESULT        GetRegistrationsRes
  ERRORS        {universalFailure }
  CODE          local: 371 }

GetRegistrationsArg ::= SEQUENCE
{ requestedRegTypes      RegistrationTypeList      OPTIONAL,
  extensions            CSTACurrentArguments    OPTIONAL }

GetRegistrationsRes ::= SEQUENCE
{ crossRefIDorRegistrationData CHOICE
  { serviceCrossRefID      ServiceCrossRefID,
    registrationList       RegistrationList },
  extensions            CSTACurrentArguments    OPTIONAL }

END -- of CSTA-get-registrations

```

12.2.6 Registration Info

```

CSTA-registration-info
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) registration-info( 372) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
RegistrationList FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

registrationInfo OPERATION ::=
{   ARGUMENT      RegistrationInfoArg
    ERRORS        {universalFailure }
    CODE          local: 372 }

RegistrationInfoArg ::= SEQUENCE
{   serviceCrossRefID     ServiceCrossRefID,
    segmentID           INTEGER                           OPTIONAL,
    lastSegment         BOOLEAN,
    registrationList    RegistrationList,
    extensions          CSTACurrentArguments           OPTIONAL }

END -- of CSTA-registration-info

```

13 Monitoring services

13.1 Services

13.1.1 Change monitor filter

```
CSTA-change-monitor-filter
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) change-monitor-filter( 102) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MonitorFilter, MonitorCrossRefID FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

changeMonitorFilter OPERATION ::=
{   ARGUMENT          ChangeMonitorFilterArgument
   RESULT            ChangeMonitorFilterResult
   ERRORS           {universalFailure }
   CODE             local: 72 }

ChangeMonitorFilterArgument ::= SEQUENCE
{   crossRefIdentifier    MonitorCrossRefID,
   requestedFilterList     MonitorFilter,
   extensions              CSTACurrentArguments      OPTIONAL }

ChangeMonitorFilterResult ::= SEQUENCE
{   actualFilterList       MonitorFilter           OPTIONAL,
   extensions              CSTACurrentArguments    OPTIONAL }

END -- of CSTA-change-monitor-filter
```

13.1.2 Monitor start

```

CSTA-monitor-start
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) monitor-start( 101) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MonitorObject, MonitorFilter, MonitorType, MonitorMediaClass,
MonitorCrossRefID FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

monitorStart OPERATION ::=

{   ARGUMENT      MonitorStartArgument
    RESULT        MonitorStartResult
    ERRORS        {universalFailure }
    CODE          local: 71 }

MonitorStartArgument ::= SEQUENCE
{   monitorObject           MonitorObject,
   requestedMonitorFilter   [0] IMPLICIT MonitorFilter      OPTIONAL,
   monitorType              MonitorType                  OPTIONAL,
   requestedMonitorMediaClass [1] IMPLICIT MonitorMediaClass OPTIONAL,
   extensions               CSTACurrentArguments     OPTIONAL }

MonitorStartResult ::= SEQUENCE
{   crossRefIdentifier     MonitorCrossRefID,
   actualMonitorFilter     [0] IMPLICIT MonitorFilter      OPTIONAL,
   actualMonitorMediaClass [1] IMPLICIT MonitorMediaClass OPTIONAL,
   monitorExistingCalls    BOOLEAN                     OPTIONAL,
   extensions               CSTACurrentArguments     OPTIONAL }

END -- of CSTA-monitor-start

```

13.1.3 Monitor stop

```

CSTA-monitor-stop
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) monitor-stop( 103) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MonitorCrossRefID FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

monitorStop OPERATION ::=
{ ARGUMENT          MonitorStopArgument
  RESULT            MonitorStopResult
  ERRORS           {universalFailure }
  CODE              local: 73 }

MonitorStopArgument ::= SEQUENCE
{ crossRefIdentifier  MonitorCrossRefID,
  extensions         CSTACCommonArguments
                     OPTIONAL }

MonitorStopResult ::= CHOICE
{ extensions         CSTACCommonArguments,
  noData             NULL }

END -- of CSTA-monitor-stop

```

13.1.4 Get Monitor

```

CSTA-get-monitor
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-monitor( 373) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MonitorList FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getMonitors OPERATION ::=
{   ARGUMENT          GetMonitorArgument
    RESULT            GetMonitorResult
    ERRORS           {universalFailure }
    CODE              local: 373 }

GetMonitorArgument ::= SEQUENCE
{   extensions      CSTACCommonArguments      OPTIONAL }

GetMonitorResult ::= SEQUENCE
{   crossRefIDorRegistrationData CHOICE
{   serviceCrossRefID   ServiceCrossRefID,
  monitorList        MonitorList },
  extensions        CSTACCommonArguments      OPTIONAL }

END -- of CSTA-get-monitor

```

13.1.5 Monitor Info

```

CSTA-monitor-info
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) monitor-info( 374) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MonitorList FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

monitorInfo OPERATION ::=
{   ARGUMENT          MonitorInfoArgument
    ERRORS            {universalFailure }
    CODE              local: 374 }

MonitorInfoArgument ::= SEQUENCE
{   serviceCrossRefID      ServiceCrossRefID,
    segmentID             INTEGER                      OPTIONAL,
    lastSegment            BOOLEAN,
    monitorList            MonitorList,
    extensions             CSTACurrentArguments        OPTIONAL }

END -- of CSTA-monitor-info

```

14 Snapshot services

14.1 Services

14.1.1 Snapshot call

```
CSTA-snapshot-call
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) snapshot-call( 105 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CallingDeviceID, CalledDeviceID, AssociatedCallingDeviceID,
AssociatedCalledDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
SnapshotCallData FROM CSTA-status-reporting
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) status-reporting( 126 ) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) capability-exchange( 131 ) }
SubjectOfCall, LanguagePreferences, MessageInfo, DeviceHistory
FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

snapshotCall OPERATION :=
{   ARGUMENT      SnapshotCallArgument
   RESULT        SnapshotCallResult
   ERRORS        {universalFailure }
   CODE          local: 75 }

SnapshotCallArgument ::= SEQUENCE
```

```
{
    snapshotObject           ConnectionID,
    extensions               CSTACCommonArguments          OPTIONAL }
```

```
SnapshotCallResult ::= SEQUENCE
{
    crossRefIDorSnapshotData CHOICE
    {
        serviceCrossRefID      [0] IMPLICIT ServiceCrossRefID,
        snapshotData            SnapshotCallData },
        mediaCallCharacteristics MediaCallCharacteristics      OPTIONAL,
        callCharacteristics     CallCharacteristics        OPTIONAL,
        callingDevice            CallingDeviceID           OPTIONAL,
        calledDevice             CalledDeviceID           OPTIONAL,
        associatedCallingDeviceID AssociatedCallingDeviceID OPTIONAL,
        associatedCalledDeviceID AssociatedCalledDeviceID OPTIONAL,
        correlatorData          [1] IMPLICIT CorrelatorData   OPTIONAL,
        callLinkageData          [2] IMPLICIT CallLinkageData   OPTIONAL,
        subjectOfCall            [3] IMPLICIT SubjectOfCall    OPTIONAL,
        messageInfo              [4] IMPLICIT MessageInfo     OPTIONAL,
        languagePreferences      [5] IMPLICIT LanguagePreferences OPTIONAL,
        deviceHistory            [6] IMPLICIT DeviceHistory    OPTIONAL,
        extensions               CSTACCommonArguments      OPTIONAL }
```

```
END -- of CSTA-snapshot-call
```

14.1.2 Snapshot device

```

CSTA-snapshot-device
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) snapshot-device( 104) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
SnapshotDeviceData FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) };

snapshotDevice OPERATION ::=
{   ARGUMENT           SnapshotDeviceArgument
    RESULT             SnapshotDeviceResult
    ERRORS            {universalFailure}
    CODE              local: 74 }

SnapshotDeviceArgument ::= SEQUENCE
{   snapshotObject   DeviceID,
    extensions       CSTACurrentArguments      OPTIONAL }

SnapshotDeviceResult ::= SEQUENCE
{   crossRefIDOrSnapshotData CHOICE
    {   serviceCrossRefID   ServiceCrossRefID,
        snapshotData       SnapshotDeviceData },
    extensions         CSTACurrentArguments OPTIONAL }

END -- of CSTA-snapshot-device

```

14.1.3 Snapshot calldata

```

CSTA-snapshot-call-data
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) snapshot-call-data(106) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SnapshotCallData FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) };

snapshotCallData OPERATION ::=
{   ARGUMENT          SnapshotCallDataArgument
  ERRORS            {universalFailure }
  ALWAYS RESPONDS  FALSE
  CODE              local: 76 }

SnapshotCallDataArgument ::= SEQUENCE
{   serviceCrossRefID      ServiceCrossRefID,
  segmentID                INTEGER                  OPTIONAL,
  lastSegment               BOOLEAN,
  snapshotData              SnapshotCallData,
  extensions                CSTACurrentArguments  OPTIONAL }

END -- of CSTA-snapshot-call-data

```

14.1.4 Snapshot devicedata

```

CSTA-snapshot-device-data
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) snapshot-device-data(107) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
SnapshotDeviceData FROM CSTA-status-reporting
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) status-reporting( 126 ) }
CSTACustomArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) capability-exchange( 131) };

snapshotDeviceData OPERATION ::=
{   ARGUMENT          SnapshotDeviceDataArgument
    ERRORS            {universalFailure }
    ALWAYS RESPONDS  FALSE
    CODE              local: 77 }

SnapshotDeviceDataArgument ::= SEQUENCE
{   serviceCrossRefID   ServiceCrossRefID,
    segmentID           INTEGER                           OPTIONAL,
    lastSegment         BOOLEAN,
    snapshotData        SnapshotDeviceData,
    extensions          CSTACustomArguments           OPTIONAL }

END -- of CSTA-snapshot-device-data

```

15 Call control services and events

15.1 Services

15.1.1 Accept call

```

CSTA-accept-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) accept-call( 214) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

acceptCall OPERATION ::=

{ ARGUMENT          AcceptCallArgument
  RESULT            AcceptCallResult
  ERRORS           {universalFailure }
  CODE              local: 214 }

AcceptCallArgument ::= SEQUENCE
{ callToBeAccepted ConnectionID,
  correlatorData   CorrelatorData      OPTIONAL,
  userData         UserData          OPTIONAL,
  extensions       CSTACurrentArguments OPTIONAL }

AcceptCallResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData          NULL }

END -- of CSTA-accept-call

```

15.1.2 Alternate call

```

CSTA-alternate-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) alternate-call( 1) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }

ConsultOptions FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

ConsultOptions ::=

alternateCall OPERATION ::=
{   ARGUMENT      AlternateCallArgument
    RESULT        AlternateCallResult
    ERRORS        {universalFailure }
    CODE          local: 1 }

AlternateCallArgument ::= SEQUENCE
{   heldCall           ConnectionID,
    activeCall          ConnectionID,
    connectionReservation BOOLEAN           OPTIONAL,
    consultOptions       ConsultOptions      DEFAULT unrestricted,
    extensions          CSTACurrentArguments OPTIONAL }

AlternateCallResult ::= CHOICE
{   extensions          CSTACurrentArguments,
    noData              NULL }

END -- of CSTA-alternate-call

```

15.1.3 Answer call

```

CSTA-answer-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) answer-call( 2) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

answerCall OPERATION ::=
{   ARGUMENT          AnswerCallArgument
   RESULT            AnswerCallResult
   ERRORS           {universalFailure }
   CODE             local: 2 }

AnswerCallArgument ::= SEQUENCE
{   callToBeAnswered      ConnectionID,
   correlatorData        CorrelatorData          OPTIONAL,
   userData              UserData                OPTIONAL,
   extensions            CSTACurrentArguments  OPTIONAL }

AnswerCallResult ::= CHOICE
{   extensions          CSTACurrentArguments,
   noData               NULL      }

END -- of CSTA-answer-call

```

15.1.4 Call back call-related

```

CSTA-call-back-call-related
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-back-call-related( 215 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
SubjectOfCall,LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CallCharacteristics FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) };

callBack OPERATION ::=

{   ARGUMENT         CallBackArgument
   RESULT           CallBackResult
   ERRORS           {universalFailure }
   CODE             local: 215 }

CallBackArgument ::= SEQUENCE
{   callbackConnection      ConnectionID,
   callCharacteristics     CallCharacteristics          OPTIONAL,
   subjectOfCall           [0] IMPLICIT SubjectOfCall    OPTIONAL,
   languagePreferences      [1] IMPLICIT LanguagePreferences OPTIONAL,
   extensions              CSTACurrentArguments        OPTIONAL }

CallBackResult ::= SEQUENCE
{   targetDevice           DeviceID                  OPTIONAL,
   extensions              CSTACurrentArguments        OPTIONAL }

END -- of CSTA-call-back-call-related

```

15.1.5 Call back message call-related

```

CSTA-call-back-message-call-related
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-back-message-call-related( 216) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };
callBackMessage OPERATION ::=
{
  ARGUMENT         CallBackMessageArgument
  RESULT           CallBackMessageResult
  ERRORS           {universalFailure }
  CODE              local: 216 }

CallBackMessageArgument ::= SEQUENCE
{  callbackMessageConnection      ConnectionID,
  extensions                  CSTACurrentArguments        OPTIONAL }

CallBackMessageResult ::= SEQUENCE
{  targetDevice                DeviceID                 OPTIONAL,
  extensions                  CSTACurrentArguments    OPTIONAL }

END -- of CSTA-call-back-message-call-related

```

15.1.6 Camp on call

```

CSTA-camp-on-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) camp-on-call( 217) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

camponCall OPERATION ::=

{ ARGUMENT      CamponCallArgument
  RESULT        CamponCallResult
  ERRORS        {universalFailure }
  CODE          local: 217 }

CamponCallArgument ::= SEQUENCE
{ camponConnection   ConnectionID,
  extensions         CSTACCommonArguments           OPTIONAL }

CamponCallResult ::= CHOICE
{ extensions       CSTACCommonArguments,
  noData           NULL }

END -- of CSTA-camp-on-call

```

15.1.7 Clear call

```

CSTA-clear-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) clear-call( 4) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

clearCall OPERATION ::=
{   ARGUMENT           ClearCallArgument
   RESULT              ClearCallResult
   ERRORS              {universalFailure }
   CODE                local: 4 }

ClearCallArgument ::= SEQUENCE
{   callToBeCleared      ConnectionID,
   userData              UserData          OPTIONAL,
   reason                EventCause        OPTIONAL,
   extensions            CSTACurrentArguments OPTIONAL }

ClearCallResult ::= CHOICE
{   extensions          CSTACurrentArguments,
   noData               NULL             }

END -- of CSTA-clear-call

```

15.1.8 Clear Connection

```

CSTA-clear-connection
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) clear-connection( 5 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

clearConnection OPERATION ::=
{   ARGUMENT           ClearConnectionArgument
   RESULT              ClearConnectionResult
   ERRORS              {universalFailure }
   CODE                local: 5 }

ClearConnectionArgument ::= SEQUENCE
{   connectionToBeCleared   ConnectionID,
   correlatorData          CorrelatorData      OPTIONAL,
   userData                UserData            OPTIONAL,
   reason                  EventCause          OPTIONAL,
   extensions              CSTACurrentArguments OPTIONAL }

ClearConnectionResult ::= CHOICE
{   extensions           CSTACurrentArguments,
   noData                NULL    }

END -- of CSTA-clear-connection

```

15.1.9 Conference call

```

CSTA-conference-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) conference-call( 6) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ConnectionList FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CallLinkageDataList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

conferenceCall OPERATION ::=
{   ARGUMENT          ConferenceCallArgument
    RESULT            ConferenceCallResult
    ERRORS           {universalFailure }
    CODE              local: 6 }

ConferenceCallArgument ::= SEQUENCE
{   heldCall           ConnectionID,
    activeCall          ConnectionID,
    extensions          CSTACurrentArguments
                        OPTIONAL }

ConferenceCallResult ::= SEQUENCE
{   conferenceCall      ConnectionID,
    connections         [0] IMPLICIT ConnectionList
                        OPTIONAL,
    conferenceCallInfo  [1] IMPLICIT ConnectionInformation
                        OPTIONAL,
    callLinkageDataList [2] IMPLICIT CallLinkageDataList
                        OPTIONAL,
    extensions          CSTACurrentArguments
                        OPTIONAL }

END -- of CSTA-conference-call

```

15.1.10 Consultation call

```

CSTA-consultation-call
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) consultation-call( 7 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }

DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }

AccountInfo, AuthCode, CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }

CallCharacteristics, ConsultOptions, CallLinkageData FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }

SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }

ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

consultationCall OPERATION ::=
{ ARGUMENT          ConsultationCallArgument
  RESULT            ConsultationCallResult
  ERRORS           {universalFailure }
  CODE              local: 7 }

ConsultationCallArgument ::= SEQUENCE
{ existingCall          [0] IMPLICIT ConnectionID,
  consultedDevice        [1] DeviceID,
  connectionReservation  [2] IMPLICIT BOOLEAN                         OPTIONAL,
  accountCode            [3] IMPLICIT AccountInfo                      OPTIONAL,
  authCode               [4] IMPLICIT AuthCode                        OPTIONAL,
  correlatorData         [5] IMPLICIT CorrelatorData                     OPTIONAL,
  userData               [6] IMPLICIT UserData                          OPTIONAL,
  callCharacteristics    [7] IMPLICIT CallCharacteristics                  OPTIONAL,
  mediaCallCharacteristics [8] IMPLICIT MediaCallCharacteristics       OPTIONAL,
  callingConnectionInfo   [9] IMPLICIT ConnectionInformation                 OPTIONAL,
  consultOptions          [10] IMPLICIT ConsultOptions                   DEFAULT unrestricted,
  subjectOfCall          [11] IMPLICIT SubjectOfCall                    OPTIONAL,
  languagePreferences     [12] IMPLICIT LanguagePreferences                  OPTIONAL,
  extensions             CSTACurrentArguments                         OPTIONAL }

```

```
ConsultationCallResult ::= SEQUENCE
{   initiatedCall           ConnectionID,
    mediaCallCharacteristics [0] IMPLICIT MediaCallCharacteristics      OPTIONAL,
    initiatedCallInfo         [1] IMPLICIT ConnectionInformation        OPTIONAL,
    callLinkageData          [2] IMPLICIT CallLinkageData            OPTIONAL
    extensions                CSTACCommonArguments                 OPTIONAL }
```

END -- of CSTA-consultation-call

15.1.11 Deflect call

```

CSTA-deflect-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) deflect-call( 218) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }

CallCharacteristics FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

deflectCall OPERATION ::=
{   ARGUMENT          DeflectCallArgument
   RESULT            DeflectCallResult
   ERRORS           {universalFailure }
   CODE              local: 218 }

DeflectCallArgument ::= SEQUENCE
{   callToBeDiverted      ConnectionID,
   newDestination        DeviceID,
   addNewDestinationsList DeviceIDList
                           OPTIONAL,
                           -- List of additional new Destinations
   correlatorData        CorrelatorData
                           OPTIONAL,
   userData              UserData
                           OPTIONAL,
   callCharacteristics  [0] IMPLICIT CallCharacteristics OPTIONAL,
   subjectOfCall         [1] IMPLICIT SubjectOfCall    OPTIONAL,
   languagePreferences   [2] IMPLICIT LanguagePreferences OPTIONAL,
   reason                [3] IMPLICIT EventCause     OPTIONAL,
   extensions            CSTACurrentArguments    OPTIONAL }

DeflectCallResult ::= CHOICE
{   extensions          CSTACurrentArguments,
   noData               NULL  }

```

DeviceIDList ::= SEQUENCE OF DeviceID

END -- of CSTA-deflect-call

15.1.12 Dial digits

```

CSTA-dial-digits
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) dial-digits( 219) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

dialDigits OPERATION ::=

{ ARGUMENT      DialDigitsArgument
  RESULT        DialDigitsResult
  ERRORS        {universalFailure }
  CODE          local: 219 }

DialDigitsArgument ::= SEQUENCE
{ diallingConnection   ConnectionID,
  diallingSequence    DeviceID,
  correlatorData      CorrelatorData      OPTIONAL,
  extensions          CSTACurrentArguments OPTIONAL }

DialDigitsResult ::= CHOICE
{ extensions        CSTACurrentArguments,
  noData            NULL }

END -- of CSTA-dial-digits

```

15.1.13 Directed pickup call

```

CSTA-directed-pickup-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) directed-pickup-call( 220) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

directedPickupCall OPERATION ::=
{ ARGUMENT      DirectedPickupCallArgument
  RESULT        DirectedPickupCallResult
  ERRORS        {universalFailure }
  CODE          local: 220 }

DirectedPickupCallArgument ::= SEQUENCE
{ callToBePickedUp      ConnectionID,
  requestingDevice       DeviceID,
  correlatorData         CorrelatorData           OPTIONAL,
  userData               UserData                 OPTIONAL,
  extensions             CSTACurrentArguments    OPTIONAL }

DirectedPickupCallResult ::= SEQUENCE
{ pickedCall            ConnectionID           OPTIONAL,
  pickedCallInfo         ConnectionInformation   OPTIONAL,
  callLinkageData        [1] IMPLICIT CallLinkageData OPTIONAL,
  extensions             CSTACurrentArguments    OPTIONAL }

END -- of CSTA-directed-pickup-call

```

15.1.14 Group pickup call

```

CSTA-group-pickup-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) group-pickup-call( 221) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

groupPickupCall OPERATION ::=
{   ARGUMENT      GroupPickupCallArgument
    RESULT        GroupPickupCallResult
    ERRORS        {universalFailure }
    CODE          local: 221 }

GroupPickupCallArgument ::=SEQUENCE
{   newDestination      DeviceID,
    pickGroup           DeviceID                  OPTIONAL,
    correlatorData     CorrelatorData            OPTIONAL,
    userData            UserData                 OPTIONAL,
    extensions          CSTACurrentArguments    OPTIONAL }

GroupPickupCallResult ::= SEQUENCE
{   pickedCall          ConnectionID            OPTIONAL,
    pickedCallInfo       ConnectionInformation    OPTIONAL,
    callLinkageData      [1] IMPLICIT CallLinkageData OPTIONAL,
    extensions          CSTACurrentArguments    OPTIONAL }

END -- of CSTA-group-pickup-call

```

15.1.15 Hold call

```

CSTA-hold-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) hold-call( 9) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

holdCall OPERATION ::=

{ ARGUMENT          HoldCallArgument
  RESULT            HoldCallResult
  ERRORS           {universalFailure }
  CODE              local: 9 }

HoldCallArgument ::= SEQUENCE
{ callToBeHeld          ConnectionID,
  connectionReservation BOOLEAN           OPTIONAL,
  extensions           CSTACCommonArguments   OPTIONAL }

HoldCallResult ::= CHOICE
{ extensions           CSTACCommonArguments,
  noData                NULL }

END -- of CSTA-hold-call

```

15.1.16 Intrude call

```

CSTA-intrude-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) intrude-call( 222) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

ParticipationType, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

CallLinkageDataList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }

ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

intrudeCall OPERATION ::=
{   ARGUMENT      IntrudeCallArgument
    RESULT        IntrudeCallResult
    ERRORS        {universalFailure }
    CODE          local: 222 }

IntrudeCallArgument ::= SEQUENCE
{   intrude           ConnectionID,
    participationType ParticipationType
    userData           UserData
    extensions         CSTACurrentArguments
                      DEFAULT active,
                      OPTIONAL,
                      OPTIONAL }

IntrudeCallResult ::= SEQUENCE
{   conferencedCall   ConnectionID
    conferencedCallInfo ConnectionInformation
    callLinkageDataList [1] IMPLICIT CallLinkageDataList
    extensions         CSTACurrentArguments
                      OPTIONAL,
                      OPTIONAL,
                      OPTIONAL }

END -- of CSTA-intrude-call

```

15.1.17 Join call

```

CSTA-join-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) join-call( 223) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
AccountInfo, AuthCode, CorrelatorData, ParticipationType, UserData
FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) }
AutoOriginate, CallLinkageDataList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

joinCall OPERATION ::=
{ ARGUMENT      JoinCallArgument
  RESULT        JoinCallResult
  ERRORS        {universalFailure }
  CODE          local: 223 }

JoinCallArgument ::= SEQUENCE
{ activeCall           ConnectionID,
  joiningDevice        DeviceID,
  autoOriginate        [0] IMPLICIT AutoOriginate      DEFAULT prompt,
  participationType   [1] IMPLICIT ParticipationType  DEFAULT active,
  accountCode          [2] IMPLICIT AccountInfo       OPTIONAL,
  authCode             [3] IMPLICIT AuthCode          OPTIONAL,
  correlatorData       [4] IMPLICIT CorrelatorData    OPTIONAL,
  userData             UserData                         OPTIONAL,
  extensions           CSTACurrentArguments        OPTIONAL }

JoinCallResult ::= SEQUENCE
{ conferencedCall     ConnectionID,
  conferencedCallInfo ConnectionInformation        OPTIONAL,
  callLinkageDataList  [1] IMPLICIT CallLinkageDataList  OPTIONAL,
  extensions           CSTACurrentArguments        OPTIONAL }

```



INTERNATIONAL

END -- of CSTA-join-call

15.1.18 Make call

```

CSTA-make-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) make-call( 10) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
AccountInfo, AuthCode, CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AutoOriginate, CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

makeCall OPERATION ::=
{ ARGUMENT      MakeCallArgument
  RESULT        MakeCallResult
  ERRORS        {universalFailure }
  CODE          local: 10 }

MakeCallArgument ::= SEQUENCE
{ callingDevice           DeviceID,
  calledDirectoryNumber   DeviceID,
  accountCode             [0] IMPLICIT AccountInfo
  authCode                [1] IMPLICIT AuthCode
  autoOriginate            [3] IMPLICIT AutoOriginate
  correlatorData           [2] IMPLICIT CorrelatorData
  userData                 UserData
  callCharacteristics      CallCharacteristics
  mediaCallCharacteristics [4] IMPLICIT MediaCallCharacteristics
  callingConnectionInfo    [5] IMPLICIT ConnectionInformation
  subjectOfCall             [6] IMPLICIT SubjectOfCall
                           OPTIONAL,
                           OPTIONAL,
                           DEFAULT prompt,
                           OPTIONAL,
                           OPTIONAL
}

```

```
languagePreferences          [ 7 ] IMPLICIT LanguagePreferences           OPTIONAL,
reason                      [ 8 ] IMPLICIT EventCause             OPTIONAL,
extensions                  CSTACommonArguments          OPTIONAL }

MakeCallResult ::= SEQUENCE
{   callingDevice            ConnectionID,
   mediaCallCharacteristics  [ 0 ] IMPLICIT MediaCallCharacteristics  OPTIONAL,
   initiatedCallInfo         [ 1 ] IMPLICIT ConnectionInformation  OPTIONAL,
   callLinkageData           [ 2 ] IMPLICIT CallLinkageData        OPTIONAL,
   extensions                  CSTACommonArguments          OPTIONAL }

END -- of CSTA-make-call
```

15.1.19 Make connection

```

CSTA-make-connection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) make-connection( 375) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
AccountInfo, AuthCode, CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AutoOriginate, CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
TimeInfo FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

makeConnection OPERATION ::=
{ ARGUMENT           MakeConnectionArgument
  RESULT             MakeConnectionResult
  ERRORS            {universalFailure }
  CODE              local: 375 }

MakeConnectionArgument ::= SEQUENCE
{ initiatingDevice      DeviceID,
  accountCode          [ 0] IMPLICIT AccountInfo
  authCode             [ 1] IMPLICIT AuthCode
  autoOriginate        [ 2] IMPLICIT AutoOriginate
  correlatorData       [ 3] IMPLICIT CorrelatorData
  callCharacteristics  [ 4] IMPLICIT CallCharacteristics
  mediaCallCharacteristics [ 5] IMPLICIT MediaCallCharacteristics
  connectionInfo        [ 6] IMPLICIT ConnectionInformation
  OPTIONAL,
  OPTIONAL,
  DEFAULT prompt,
  OPTIONAL,
  OPTIONAL,
  OPTIONAL,
  OPTIONAL,
  OPTIONAL,
  OPTIONAL,
  OPTIONAL
}

```

```

subjectOfCall           [ 7] IMPLICIT SubjectOfCall          OPTIONAL,
languagePreferences    [ 8] IMPLICIT LanguagePreferences  OPTIONAL,
reason                 [ 9] IMPLICIT EventCause          OPTIONAL,
maxDevices             [10] IMPLICIT INTEGER            OPTIONAL,
startTime              [11] IMPLICIT TimeInfo           OPTIONAL,
duration               [12] IMPLICIT INTEGER            OPTIONAL,
extensions             CSTACurrentArguments        OPTIONAL }

MakeConnectionResult ::= SEQUENCE
{
  initiatingDevice      ConnectionID,
  mediaCallCharacteristics [0] IMPLICIT MediaCallCharacteristics OPTIONAL,
  initiatedCallInfo     [1] IMPLICIT ConnectionInformation OPTIONAL,
  callLinkageData        [2] IMPLICIT CallLinkageData    OPTIONAL,
  extensions             CSTACurrentArguments        OPTIONAL }
}

END -- of CSTA-make-connection

```

15.1.20 Make predictive call

```

CSTA-make-predictive-call
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) make-predictive-call( 11 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
AccountInfo, AuthCode, CorrelatorData, UserData FROM
CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
AutoOriginate, CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

makePredictiveCall OPERATION ::=
{ ARGUMENT           MakePredictiveCallArgument
  RESULT             MakePredictiveCallResult
  ERRORS            {universalFailure }
  CODE              local: 11 }

MakePredictiveCallArgument ::= SEQUENCE
{ callingDevice           DeviceID,
  calledDirectoryNumber   DeviceID,
  signallingDetection     [ 0 ] IMPLICIT SignallingDetection
                           OPTIONAL,
  destinationDetection    [ 1 ] IMPLICIT DestinationDetection
                           OPTIONAL,
  defaultAction           [ 2 ] IMPLICIT DefaultAction
                           OPTIONAL,
  accountCode             [ 3 ] IMPLICIT AccountInfo
                           OPTIONAL,
  authCode                [ 4 ] IMPLICIT AuthCode
                           OPTIONAL,
  autoOriginate           [ 5 ] IMPLICIT AutoOriginate
                           DEFAULT prompt
  alertTime               [ 6 ] IMPLICIT INTEGER
                           OPTIONAL,
  correlatorData          [ 7 ] IMPLICIT CorrelatorData
                           OPTIONAL,
  callCharacteristics     [ 8 ] IMPLICIT CallCharacteristics
                           OPTIONAL,
  userData                UserData
                           OPTIONAL,
  subjectOfCall           [ 9 ] IMPLICIT SubjectOfCall
                           OPTIONAL,

```

```

languagePreferences [10] IMPLICIT LanguagePreferences OPTIONAL,
extensions CSTACurrentArguments OPTIONAL }

MakePredictiveCallResult ::= SEQUENCE
{ initiatedCall ConnectionID,
  initiatedCallInfo ConnectionInformation OPTIONAL,
  callLinkageData [1] IMPLICIT CallLinkageData OPTIONAL,
  extensions CSTACurrentArguments OPTIONAL }

SignallingDetection ::= SEQUENCE
{ signallingCondition SignallingCondition,
  signallingConditionsAction SignallingConditionsAction }

SignallingCondition ::= ENUMERATED
{ callDelivered (0),
  callEstablished (1) }

SignallingConditionsAction ::= ENUMERATED
{ destinationDetection (0),
  remainConnected (1) }

DestinationDetection ::= SEQUENCE OF SEQUENCE
{ destinationCondition DestinationCondition,
  detectionAction DetectionAction }

DestinationCondition ::= ENUMERATED
{ humanVoice (0),
  answeringMachine (1),
  facsimileMachine (2) }

DefaultAction ::= DetectionAction

DetectionAction ::= ENUMERATED
{ clearCalledConnection (0),
  remainConnected (1) }

END -- of CSTA-make-predictive-call

```

15.1.21 Park call

```

CSTA-park-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) park-call( 18) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
SubjectOfCall,LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

parkCall OPERATION ::=
{ ARGUMENT      ParkCallArgument
  RESULT        ParkCallResult
  ERRORS        {universalFailure }
  CODE          local: 18 }

ParkCallArgument ::= SEQUENCE
{ parking           ConnectionID,
  parkTo            DeviceID,
  correlatorData    CorrelatorData          OPTIONAL,
  subjectOfCall     [0] IMPLICIT SubjectOfCall   OPTIONAL,
  languagePreferences [1] IMPLICIT LanguagePreferences OPTIONAL,
  extensions         CSTACurrentArguments    OPTIONAL }

ParkCallResult ::= SEQUENCE
{ parkedTo          ConnectionID          OPTIONAL,
  callLinkageData   [1] IMPLICIT CallLinkageData OPTIONAL,
  extensions        CSTACurrentArguments    OPTIONAL }

END -- of CSTA-park-call

```

15.1.22 Reconnect call

```

CSTA-reconnect-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) reconnect-call( 13) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

reconnectCall OPERATION ::=
{ ARGUMENT          ReconnectCallArgument
  RESULT            ReconnectCallResult
  ERRORS           {universalFailure }
  CODE              local: 13 }

ReconnectCallArgument ::= SEQUENCE
{ activeCall          ConnectionID,
  heldCall            ConnectionID,
  extensions          CSTACurrentArguments      OPTIONAL }

ReconnectCallResult ::= CHOICE
{ extensions          CSTACurrentArguments,
  noData              NULL }

END -- of CSTA-reconnect-call

```

15.1.23 Retrieve call

```

CSTA-retrieve-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) retrieve-call( 14) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

retrieveCall OPERATION ::=
{ ARGUMENT          RetrieveCallArgument
  RESULT            RetrieveCallResult
  ERRORS           {universalFailure }
  CODE              local: 14 }

RetrieveCallArgument ::= SEQUENCE
{ callToBeRetrieved      ConnectionID,
  extensions           CSTACurrentArguments
                      OPTIONAL }

RetrieveCallResult ::= CHOICE
{ extensions           CSTACurrentArguments,
  noData               NULL }

END -- of CSTA-retrieve-call

```

15.1.24 Single step conference call

```

CSTA-single-step-conference
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) single-step-conference( 20 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
AccountInfo, AuthCode, CorrelatorData, ParticipationType, UserData
FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CallLinkageDataList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

singleStepConf OPERATION ::=
{   ARGUMENT      SingleStepConfArgument
    RESULT        SingleStepConfResult
    ERRORS        {universalFailure}
    CODE          local: 20 }

SingleStepConfArgument ::= SEQUENCE
{   activeCall           ConnectionID,
    deviceToJoin         DeviceID,
    participationType    ParticipationType
                           DEFAULT active,
    accountCode          [0] IMPLICIT AccountInfo
                           OPTIONAL,
    authCode             [1] IMPLICIT AuthCode
                           OPTIONAL,
    correlatorData       [2] IMPLICIT CorrelatorData
                           OPTIONAL,
    userData             UserData
                           OPTIONAL,
    subjectOfCall        [3] IMPLICIT SubjectOfCall
                           OPTIONAL,
    languagePreferences  [4] IMPLICIT LanguagePreferences
                           OPTIONAL,
    extensions           CSTACurrentArguments
                           OPTIONAL }

SingleStepConfResult ::= SEQUENCE
{   conferencedCall     ConnectionID,

```

```
conferencedCallInfo ConnectionInformation           OPTIONAL,  
callLinkageDataList [1] IMPLICIT CallLinkageDataList OPTIONAL,  
extensions          CSTACurrentArguments        OPTIONAL }  
  
END -- of CSTA-single-step-conference
```

15.1.25 Send Message

```

CSTA-send-message
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) send-message( 376 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
AccountInfo, AuthCode, CorrelatorData
FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
SubjectOfCall, LanguagePreferences, MessageInfo
FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) };

sendMessage OPERATION ::=

{ ARGUMENT      SendMessageArgument
  RESULT        SendMessageResult
  ERRORS        {universalFailure }
  CODE          local: 376 }

SendMessageArgument ::= SEQUENCE
{ callingDevice           DeviceID,
  destinationDevices     DeviceListItems,
  messageInfo            MessageInfo,
  accountCode             [0] IMPLICIT AccountInfo           OPTIONAL,
  authCode                [1] IMPLICIT AuthCode           OPTIONAL,
  correlatorData          [2] IMPLICIT CorrelatorData        OPTIONAL,
  callCharacteristics     [3] IMPLICIT CallCharacteristics   OPTIONAL,
  mediaCallCharacteristics [4] IMPLICIT MediaCallCharacteristics OPTIONAL,
  subjectOfCall            [5] IMPLICIT SubjectOfCall         OPTIONAL,
  languagePreferences      [6] IMPLICIT LanguagePreferences    OPTIONAL,
  extensions               CSTACurrentArguments           OPTIONAL }

```

```
SendMessageResult ::= SEQUENCE
{   connectionList           ConnectionListItems,
    mediaCallCharacteristics MediaCallCharacteristics      OPTIONAL,
    listOfCallLinkageData     [1] IMPLICIT CallLinkageDataListItems  OPTIONAL,
    extensions                CSTACCommonArguments        OPTIONAL }
```

```
DeviceListItems ::= SEQUENCE
{   device                  DeviceID }
```

```
ConnectionListItems ::= SEQUENCE
{   connection              ConnectionID }
```

```
CallLinkageDataListItems ::= SEQUENCE
{   callLinkageData          CallLinkageData }
```

```
END -- of CSTA-send-message
```

15.1.26 Single step transfer call

```

CSTA-single-step-transfer
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) single-step-conference( 50 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
ConnectionList FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
AccountInfo, AuthCode, CorrelatorData, UserData
FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
CallCharacteristics, CallLinkageDataList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

singleStepTrans OPERATION ::=
{ ARGUMENT      SingleStepTransArgument
  RESULT        SingleStepTransResult
  ERRORS        {universalFailure }
  CODE          local: 50 }

SingleStepTransArgument ::= SEQUENCE
{ activeCall      ConnectionID,
  transferredTo   DeviceID,
  accountCode     [0] IMPLICIT AccountInfo           OPTIONAL,
  authCode        [1] IMPLICIT AuthCode            OPTIONAL,
  correlatorData  [2] IMPLICIT CorrelatorData       OPTIONAL,
  userData        UserData                         OPTIONAL,
  callCharacteristics [3] IMPLICIT CallCharacteristics OPTIONAL,
}

```

```
subjectOfCall      [4] IMPLICIT SubjectOfCall           OPTIONAL,
languagePreferences [5] IMPLICIT LanguagePreferences   OPTIONAL,
reason            [6] IMPLICIT EventCause             OPTIONAL,
extensions        CSTACCommonArguments          OPTIONAL }

SingleStepTransResult ::= SEQUENCE
{ transferredCall     ConnectionID,
connections          [0] IMPLICIT ConnectionList       OPTIONAL,
transferredCallInfo  [1] IMPLICIT ConnectionInformation OPTIONAL,
callLinkageDataList  [2] IMPLICIT CallLinkageDataList   OPTIONAL,
extensions          CSTACCommonArguments          OPTIONAL }

END -- of CSTA-single-step-transfer
```

15.1.27 Transfer call

```

CSTA-transfer-call
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) transfer-call( 16) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ConnectionList FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CallLinkageDataList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

transferCall OPERATION ::=
{   ARGUMENT      TransferCallArgument
    RESULT        TransferCallResult
    ERRORS        {universalFailure }
    CODE          local: 16 }

TransferCallArgument ::= SEQUENCE
{   heldCall           ConnectionID,
    activeCall          ConnectionID,
    extensions          CSTACurrentArguments
                        OPTIONAL }

TransferCallResult ::= SEQUENCE
{   transferredCall    ConnectionID,
    connections         [0] IMPLICIT ConnectionList
                        OPTIONAL,
    transferredCallInfo [1] IMPLICIT ConnectionInformation
                        OPTIONAL,
    callLinkageDataList [2] IMPLICIT CallLinkageDataList
                        OPTIONAL,
    extensions          CSTACurrentArguments
                        OPTIONAL }

END -- of CSTA-transfer-call

```

15.2 Events

15.2.1 Bridged

```
CSTA-bridged-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) bridged-event( 224) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

BridgedEvent ::= SEQUENCE
{ bridgedConnection          ConnectionID,
  bridgedAppearance          SubjectDeviceID,
  localConnectionInfo        LocalConnectionState           OPTIONAL,
  correlatorData             [0] IMPLICIT CorrelatorData    OPTIONAL,
  userData                   UserData                         OPTIONAL,
  cause                      EventCause,
  servicesPermitted          [1] IMPLICIT ServicesPermitted  OPTIONAL,
  mediaCallCharacteristics   [2] IMPLICIT MediaCallCharacteristics  OPTIONAL,
  callCharacteristics         [3] IMPLICIT CallCharacteristics    OPTIONAL,
  bridgedConnectionInfo      [4] IMPLICIT ConnectionInformation  OPTIONAL,
  callLinkageData             [5] IMPLICIT CallLinkageData       OPTIONAL,
  languagePreferences         [6] IMPLICIT LanguagePreferences    OPTIONAL,
  locationInfo               [7] IMPLICIT LocationInfoList     OPTIONAL,
```

extensions

CSTACommonArguments

OPTIONAL }

END -- of CSTA-bridged-event

15.2.2 Call cleared

```

CSTA-call-cleared-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-cleared-event( 22) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

CallClearedEvent ::= SEQUENCE
{ clearedCall           ConnectionID,
  correlatorData        [1] IMPLICIT CorrelatorData          OPTIONAL,
  userData              UserData                           OPTIONAL,
  cause                 EventCause,
  mediaCallCharacteristics [2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics   [3] IMPLICIT CallCharacteristics    OPTIONAL,
  callLinkageData        [4] IMPLICIT CallLinkageData       OPTIONAL,
  languagePreferences   [5] IMPLICIT LanguagePreferences    OPTIONAL,
  locationInfo          [6] IMPLICIT LocationInfoList     OPTIONAL,
  extensions            CSTACurrentArguments             OPTIONAL }

END -- of CSTA-call-cleared-event

```

15.2.3 Conferenced

```

CSTA-conferenced-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) conferenced-event( 23 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
LocalConnectionState, ConnectionList FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
CallCharacteristics, CallLinkageDataList, ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LocationInfoList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LanguagePreferences, DeviceHistory FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

ConferencedEvent ::= SEQUENCE
{ primaryOldCall           ConnectionID,
  secondaryOldCall          ConnectionID                               OPTIONAL,
  conferencingDevice        SubjectDeviceID,
  addedParty                SubjectDeviceID,
  conferenceConnections     ConnectionList,
  localConnectionInfo       LocalConnectionState                  OPTIONAL,
  correlatorData            [1] IMPLICIT CorrelatorData      OPTIONAL,
  userData                 UserData                                OPTIONAL,
  cause                     EventCause,
  servicesPermitted         [2] IMPLICIT ServicesPermitted    OPTIONAL,
  mediaCallCharacteristics  [3] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics       [4] IMPLICIT CallCharacteristics   OPTIONAL,
  callLinkageDataList        [6] IMPLICIT CallLinkageDataList   OPTIONAL,
  languagePreferences        [7] IMPLICIT LanguagePreferences    OPTIONAL,
  deviceHistory              [8] IMPLICIT DeviceHistory      OPTIONAL,
  locationInfo              [9] IMPLICIT LocationInfoList    OPTIONAL,
}

```

extensions

[5] IMPLICIT

CSTACommonArguments

OPTIONAL }

END -- of CSTA-conferenced-event

15.2.4 Connection cleared

```

CSTA-connection-cleared-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-cleared-event( 24 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
ChargingInfo FROM CSTA-charge-info
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) charge-info( 133 ) }
LocationInfoList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LanguagePreferences, DeviceHistory FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

ConnectionClearedEvent ::= SEQUENCE
{ droppedConnection          ConnectionID,
  releasingDevice            SubjectDeviceID,
  localConnectionInfo        LocalConnectionState           OPTIONAL,
  correlatorData             [0] IMPLICIT CorrelatorData    OPTIONAL,
  userData                   UserData                         OPTIONAL,
  chargingInfo               [1] IMPLICIT ChargingInfo    OPTIONAL,
  cause                      EventCause,
  servicesPermitted          [2] IMPLICIT ServicesPermitted  OPTIONAL,
  mediaCallCharacteristics   [3] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics         [4] IMPLICIT CallCharacteristics  OPTIONAL,
  droppedConnectionInfo      [5] IMPLICIT ConnectionInformation OPTIONAL,
  callLinkageData             [6] IMPLICIT CallLinkageData    OPTIONAL,
  languagePreferences         [7] IMPLICIT LanguagePreferences  OPTIONAL,
}

```

```
deviceHistory          [8] IMPLICIT DeviceHistory  
locationInfo          [9] IMPLICIT LocationInfoList  
extensions            CSTACurrentArguments  
  
OPTIONAL,  
OPTIONAL,  
OPTIONAL }
```

END -- of CSTA-connection-cleared-event

15.2.5 Delivered

```

CSTA-delivered-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) delivered-event( 25) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, CallingDeviceID, CalledDeviceID, RedirectionDeviceID,
AssociatedCalledDeviceID, AssociatedCallingDeviceID,
NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences, SubjectOfCall,
MessageInfo, DeviceHistory FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

DeliveredEvent ::= SEQUENCE
{ connection                  ConnectionID,
  alertingDevice              SubjectDeviceID,
  callingDevice                CallingDeviceID,
  calledDevice                 CalledDeviceID,
  lastRedirectionDevice       RedirectionDeviceID,
  originatingNIDConnection   ConnectionID                               OPTIONAL,
  localConnectionInfo          LocalConnectionState                   OPTIONAL,
  correlatorData               [ 0] IMPLICIT CorrelatorData        OPTIONAL,
  userData                     UserData                           OPTIONAL,
  cause                        EventCause,
  servicesPermitted            [ 1] IMPLICIT ServicesPermitted    OPTIONAL,
  networkCallingDevice         NetworkCallingDeviceID             OPTIONAL,
}

```

| | | |
|--------------------------|---|------------|
| networkCalledDevice | NetworkCalledDeviceID | OPTIONAL, |
| associatedCallingDevice | AssociatedCallingDeviceID | OPTIONAL, |
| associatedCalledDevice | AssociatedCalledDeviceID | OPTIONAL, |
| mediaCallCharacteristics | [2] IMPLICIT MediaCallCharacteristics | OPTIONAL, |
| callCharacteristics | [3] IMPLICIT CallCharacteristics | OPTIONAL, |
| connectionInfo | [4] IMPLICIT ConnectionInformation | OPTIONAL, |
| callLinkageData | [5] IMPLICIT CallLinkageData | OPTIONAL, |
| subjectOfCall | [6] IMPLICIT SubjectOfCall | OPTIONAL, |
| messageInfo | [7] IMPLICIT MessageInfo | OPTIONAL, |
| languagePreferences | [8] IMPLICIT LanguagePreferences | OPTIONAL, |
| deviceHistory | [9] IMPLICIT DeviceHistory | OPTIONAL, |
| locationInfo | [10] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACustomArguments | OPTIONAL } |

END -- of CSTA-delivered-event

15.2.6 Digits dialed

```

CSTA-digits-dialed-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) digits-dialed-event( 225) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, DeviceID, AssociatedCalledDeviceID, AssociatedCallingDeviceID,
NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

DigitsDialedEvent ::= SEQUENCE
{ dialingConnection          ConnectionID,
  dialingDevice               SubjectDeviceID,
  dialingSequence             DeviceID,
  localConnectionInfo         LocalConnectionState OPTIONAL,
  correlatorData              [0] IMPLICIT CorrelatorData OPTIONAL,
  cause                       EventCause,
  servicesPermitted           [1] IMPLICIT ServicesPermitted OPTIONAL,
  networkCallingDevice        NetworkCallingDeviceID OPTIONAL,
  networkCalledDevice          NetworkCalledDeviceID OPTIONAL,
  associatedCallingDevice     AssociatedCallingDeviceID OPTIONAL,
  associatedCalledDevice       AssociatedCalledDeviceID OPTIONAL,
  dialingConnectionInfo       [2] IMPLICIT ConnectionInformation OPTIONAL,
  callCharacteristics         [3] IMPLICIT CallCharacteristics OPTIONAL,
  callLinkageData              [4] IMPLICIT CallLinkageData OPTIONAL,
}

```

| | | |
|---------------------|------------------------------------|------------|
| languagePreferences | [5] IMPLICIT LanguagePreferences | OPTIONAL, |
| locationInfo | [6] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACurrentArguments | OPTIONAL } |

END -- of CSTA-digits-dialed-event

15.2.7 Diverted

```

CSTA-diverted-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) diverted-event( 26) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID , CallingDeviceID, CalledDeviceID, RedirectionDeviceID,
AssociatedCalledDeviceID, AssociatedCallingDeviceID,
NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences, SubjectOfCall, MessageInfo,
DeviceHistory FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

DivertedEvent ::= SEQUENCE
{ connection                  ConnectionID,
  divertingDevice             SubjectDeviceID,
  newDestination              SubjectDeviceID,
  callingDevice                CallingDeviceID           OPTIONAL,
  calledDevice                 CalledDeviceID          OPTIONAL,
  lastRedirectionDevice       RedirectionDeviceID,
  localConnectionInfo          LocalConnectionState   OPTIONAL,
  correlatorData               [ 0 ] IMPLICIT CorrelatorData  OPTIONAL,
  userData                     UserData                OPTIONAL,
  cause                        EventCause,
  servicesPermitted            [ 1 ] IMPLICIT ServicesPermitted  OPTIONAL,
  mediaCallCharacteristics    [ 2 ] IMPLICIT MediaCallCharacteristics  OPTIONAL,
}

```

| | | |
|-------------------------|-------------------------------------|------------|
| callCharacteristics | [3] IMPLICIT CallCharacteristics | OPTIONAL, |
| connectionInfo | [4] IMPLICIT ConnectionInformation | OPTIONAL, |
| networkCallingDevice | NetworkCallingDeviceID | OPTIONAL, |
| networkCalledDevice | NetworkCalledDeviceID | OPTIONAL, |
| associatedCallingDevice | AssociatedCallingDeviceID | OPTIONAL, |
| associatedCalledDevice | AssociatedCalledDeviceID | OPTIONAL, |
| callLinkageData | [5] IMPLICIT CallLinkageData | OPTIONAL, |
| subjectOfCall | [6] IMPLICIT SubjectOfCall | OPTIONAL, |
| messageInfo | [7] IMPLICIT MessageInfo | OPTIONAL, |
| languagePreferences | [8] IMPLICIT LanguagePreferences | OPTIONAL, |
| deviceHistory | [9] IMPLICIT DeviceHistory | OPTIONAL, |
| locationInfo | [10] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACommonArguments | OPTIONAL } |

END -- of CSTA-diverted-event

15.2.8 Established

```

CSTA-established-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) established-event( 27) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, CalledDeviceID, CallingDeviceID, RedirectionDeviceID,
AssociatedCalledDeviceID, AssociatedCallingDeviceID,
NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences, SubjectOfCall, MessageInfo,
DeviceHistory FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

EstablishedEvent ::= SEQUENCE
{   establishedConnection           ConnectionID,
    answeringDevice                 SubjectDeviceID,
    callingDevice                   CallingDeviceID,
    calledDevice                    CalledDeviceID,
    lastRedirectionDevice          RedirectionDeviceID,
    originatingNIDConnection       ConnectionID
                                    OPTIONAL,
    localConnectionInfo            LocalConnectionState
                                    OPTIONAL,
    correlatorData                 [ 1] IMPLICIT CorrelatorData
                                    OPTIONAL,
    userData                       UserData
                                    OPTIONAL,
    cause                          EventCause,
    servicesPermitted              [ 2] IMPLICIT ServicesPermitted
                                    OPTIONAL,
    networkCallingDevice          NetworkCallingDeviceID
                                    OPTIONAL,
}

```

| | | |
|---------------------------|--|------------|
| networkCalledDevice | NetworkCalledDeviceID | OPTIONAL, |
| associatedCallingDevice | AssociatedCallingDeviceID | OPTIONAL, |
| associatedCalledDevice | AssociatedCalledDeviceID | OPTIONAL, |
| mediaCallCharacteristics | [3] IMPLICIT MediaCallCharacteristics | OPTIONAL, |
| callCharacteristics | [4] IMPLICIT CallCharacteristics | OPTIONAL, |
| establishedConnectionInfo | [5] IMPLICIT ConnectionInformation | OPTIONAL, |
| callLinkageData | [6] IMPLICIT CallLinkageData | OPTIONAL, |
| subjectOfCall | [7] IMPLICIT SubjectOfCall | OPTIONAL, |
| messageInfo | [8] IMPLICIT MessageInfo | OPTIONAL, |
| languagePreferences | [9] IMPLICIT LanguagePreferences | OPTIONAL, |
| deviceHistory | [10] IMPLICIT DeviceHistory | OPTIONAL, |
| locationInfo | [11] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACommonArguments | OPTIONAL } |

END -- of CSTA-established-event

15.2.9 Failed

```

CSTA-failed-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) failed-event( 28 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
SubjectDeviceID, CallingDeviceID, CalledDeviceID, RedirectionDeviceID,
AssociatedCalledDeviceID, AssociatedCallingDeviceID,
NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LocationInfoList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LanguagePreferences, SubjectOfCall, MessageInfo,
DeviceHistory FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

FailedEvent ::= SEQUENCE
{ failedConnection          ConnectionID,
  failingDevice              SubjectDeviceID,
  callingDevice               CallingDeviceID,
  calledDevice                CalledDeviceID,
  lastRedirectionDevice      RedirectionDeviceID,
  originatingNIDConnection   ConnectionID                               OPTIONAL,
  localConnectionInfo         LocalConnectionState                      OPTIONAL,
  correlatorData              [ 0 ] IMPLICIT CorrelatorData           OPTIONAL,
  userData                   UserData                                OPTIONAL,
  cause                      EventCause,
  servicesPermitted          [ 1 ] IMPLICIT ServicesPermitted        OPTIONAL,
  networkCallingDevice        NetworkCallingDeviceID                  OPTIONAL,
}

```

```
networkCalledDevice      NetworkCalledDeviceID           OPTIONAL,  
associatedCallingDevice AssociatedCallingDeviceID     OPTIONAL,  
associatedCalledDevice  AssociatedCalledDeviceID    OPTIONAL,  
mediaCallCharacteristics [ 2] IMPLICIT MediaCallCharacteristics OPTIONAL,  
callCharacteristics     [ 3] IMPLICIT CallCharacteristics OPTIONAL,  
failedConnectionInfo   [ 4] IMPLICIT ConnectionInformation OPTIONAL,  
                           --corrected 06/2001  
callLinkageData         [ 5] IMPLICIT CallLinkageData    OPTIONAL,  
subjectOfCall            [ 6] IMPLICIT SubjectOfCall    OPTIONAL,  
messageInfo              [ 7] IMPLICIT MessageInfo     OPTIONAL,  
languagePreferences     [ 8] IMPLICIT LanguagePreferences OPTIONAL,  
deviceHistory            [ 9] IMPLICIT DeviceHistory    OPTIONAL,  
locationInfo             [10] IMPLICIT LocationInfoList  OPTIONAL,  
extensions               CSTACurrentArguments    OPTIONAL }
```

END -- of CSTA-failed-event

15.2.10 Held

```

CSTA-held-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) held-event( 29 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LocationInfoList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

HeldEvent ::= SEQUENCE
{ heldConnection          ConnectionID,
  holdingDevice           SubjectDeviceID,
  localConnectionInfo     LocalConnectionState OPTIONAL,
  correlatorData          [0] IMPLICIT CorrelatorData OPTIONAL,
  cause                   EventCause,
  servicesPermitted       [1] IMPLICIT ServicesPermitted OPTIONAL,
  mediaCallCharacteristics [2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics     [3] IMPLICIT CallCharacteristics OPTIONAL,
  heldConnectionInfo      [4] IMPLICIT ConnectionInformation OPTIONAL,
  callLinkageData          [5] IMPLICIT CallLinkageData OPTIONAL,
  languagePreferences      [6] IMPLICIT LanguagePreferences OPTIONAL,
  locationInfo            [7] IMPLICIT LocationInfoList OPTIONAL,
  extensions              CSTACurrentArguments OPTIONAL }

END -- of CSTA-held-event

```

15.2.11 Network capabilities changed

```

CSTA-network-capabilities-changed-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) network-capabilities-changed-event( 226) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, CalledDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, NetworkCapability, ProgressIndicator,
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

NetworkCapabilitiesChangedEvent ::= SEQUENCE
{ outboundConnection          ConnectionID,
  networkInterfaceUsed        SubjectDeviceID,
  calledDevice                CalledDeviceID,
  progressIndicator           ProgressIndicator,
  localConnectionInfo         LocalConnectionState OPTIONAL,
  correlatorData              CorrelatorData OPTIONAL,
  userData                    UserData OPTIONAL,
  networkCapability           [0] IMPLICIT NetworkCapability OPTIONAL,
  cause                       EventCause,
  servicesPermitted           [1] IMPLICIT ServicesPermitted OPTIONAL,
  mediaCallCharacteristics    [2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics          [3] IMPLICIT CallCharacteristics OPTIONAL,
  outboundConnectionInfo      [4] IMPLICIT ConnectionInformation OPTIONAL,
  callLinkageData              [5] IMPLICIT CallLinkageData OPTIONAL,
  languagePreferences          [6] IMPLICIT LanguagePreferences OPTIONAL,
}

```

```
locationInfo          [ 7 ] IMPLICIT    LocationInfoList      OPTIONAL,  
extensions           CSTACurrentArguments  OPTIONAL }  
  
END -- of CSTA-network-capabilities-changed-event
```

15.2.12 Network reached

```

CSTA-network-reached-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) network-reached-event( 30) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, CallingDeviceID, CalledDeviceID, RedirectionDeviceID,
AssociatedCallingDeviceID, NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, NetworkCapability,
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
DeviceHistory, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

NetworkReachedEvent ::= SEQUENCE
{
  outboundConnection          ConnectionID,
  networkInterfaceUsed        SubjectDeviceID,
  callingDevice                CallingDeviceID,
  calledDevice                 CalledDeviceID,
  lastRedirectionDevice       RedirectionDeviceID,
  originatingNIDConneciton    ConnectionID,
  localConnectionInfo          LocalConnectionState,
  correlatorData               [0] IMPLICIT CorrelatorData,
  userData                     UserData,
  networkCapability            [1] IMPLICIT NetworkCapability,
  cause                        EventCause,
  servicesPermitted            [2] IMPLICIT ServicesPermitted,
  mediaCallCharacteristics     [3] IMPLICIT MediaCallCharacteristics
}

```

| | | |
|-------------------------|--------------------------------------|------------|
| callCharacteristics | [4] IMPLICIT CallCharacteristics | OPTIONAL, |
| outboundConnectionInfo | [5] IMPLICIT ConnectionInformation | OPTIONAL, |
| networkCallingDevice | NetworkCallingDeviceID | OPTIONAL, |
| networkCalledDevice | NetworkCalledDeviceID | OPTIONAL, |
| associatedCallingDevice | AssociatedCallingDeviceID | OPTIONAL, |
| callLinkageData | [6] IMPLICIT CallLinkageData | OPTIONAL, |
| languagePreferences | [7] IMPLICIT LanguagePreferences | OPTIONAL, |
| deviceHistory | [8] IMPLICIT DeviceHistory | OPTIONAL, |
| locationInfo | [9] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACommonArguments | OPTIONAL } |

END -- of CSTA-network-reached-event

15.2.13 Offered

```

CSTA-offered-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) offered-event( 227) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, CallingDeviceID, CalledDeviceID, RedirectionDeviceID, AssociatedCalledDeviceID,
AssociatedCallingDeviceID, NetworkCalledDeviceID, NetworkCallingDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
DeviceHistory, LanguagePreferences, SubjectOfCall,
MessageInfo FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

OfferedEvent ::= SEQUENCE
{ offeredConnection           ConnectionID,
  offeredDevice                SubjectDeviceID,
  callingDevice                 CallingDeviceID,
  calledDevice                  CalledDeviceID,
  lastRedirectionDevice        RedirectionDeviceID,
  originatingNIDConnection     ConnectionID,
  localConnectionInfo          LocalConnectionState,
  correlatorData                CorrelatorData,
  userData                      UserData,
  cause                         EventCause,
  servicesPermitted             [0] IMPLICIT ServicesPermitted,
  networkCallingDevice          NetworkCallingDeviceID,
  networkCalledDevice           NetworkCalledDeviceID
}

```

| | | |
|--------------------------|---------------------------------------|------------|
| associatedCallingDevice | AssociatedCallingDeviceID | OPTIONAL, |
| associatedCalledDevice | AssociatedCalledDeviceID | OPTIONAL, |
| mediaCallCharacteristics | [1] IMPLICIT MediaCallCharacteristics | OPTIONAL, |
| callCharacteristics | [2] IMPLICIT CallCharacteristics | OPTIONAL, |
| offeredConnectionInfo | [3] IMPLICIT ConnectionInformation | OPTIONAL, |
| callLinkageData | [4] IMPLICIT CallLinkageData | OPTIONAL, |
| subjectOfCall | [5] IMPLICIT SubjectOfCall | OPTIONAL, |
| messageInfo | [6] IMPLICIT MessageInfo | OPTIONAL, |
| languagePreferences | [7] IMPLICIT LanguagePreferences | OPTIONAL, |
| deviceHistory | [8] IMPLICIT DeviceHistory | OPTIONAL, |
| locationInfo | [9] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACommonArguments | OPTIONAL } |

END -- of CSTA-offered-event

15.2.14 Originated

```

CSTA-originated-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) originated-event( 31) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, CallingDeviceID, CalledDeviceID, AssociatedCalledDeviceID,
AssociatedCallingDeviceID, NetworkCalledDeviceID, NetworkCallingDeviceID, SubjectDeviceID
FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences, SubjectOfCall, MessageInfo FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

OriginatedEvent ::= SEQUENCE
{ originatedConnection          ConnectionID,
  callingDevice                 SubjectDeviceID,
  calledDevice                  CalledDeviceID,
  originatingDevice             DeviceID                               OPTIONAL,
  localConnectionInfo           LocalConnectionState                OPTIONAL,
  correlatorData                [ 2] IMPLICIT CorrelatorData      OPTIONAL,
  cause                         EventCause,
  servicesPermitted             [ 3] IMPLICIT ServicesPermitted    OPTIONAL,
  networkCallingDevice          NetworkCallingDeviceID            OPTIONAL,
  networkCalledDevice           NetworkCalledDeviceID            OPTIONAL,
  associatedCallingDevice       AssociatedCallingDeviceID        OPTIONAL,
  associatedCalledDevice        AssociatedCalledDeviceID        OPTIONAL,
  mediaCallCharacteristics     [ 4] IMPLICIT MediaCallCharacteristics  OPTIONAL,
  callCharacteristics          [ 5] IMPLICIT CallCharacteristics   OPTIONAL,
}

```

```
originatedConnectionInfo      [ 6] IMPLICIT ConnectionInformation      OPTIONAL,  
callLinkageData              [ 7] IMPLICIT CallLinkageData          OPTIONAL,  
subjectOfCall                [ 8] IMPLICIT SubjectOfCall           OPTIONAL,  
messageInfo                  [ 9] IMPLICIT MessageInfo            OPTIONAL,  
languagePreferences          [10] IMPLICIT LanguagePreferences        OPTIONAL,  
locationInfo                 [11] IMPLICIT LocationInfoList         OPTIONAL,  
extensions                   CSTACurrentArguments             OPTIONAL }  
  
END -- of CSTA-originated-event
```

15.2.15 Queued

```

CSTA-queued-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) queued-event( 32) }

DEFINITIONS::=
BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
CalledDeviceID,CallingDeviceID,RedirectionDeviceID,SubjectDeviceID,AssociatedCalledDeviceID,
AssociatedCallingDeviceID, NetworkCalledDeviceID,
NetworkCallingDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
LocationInfoList,CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
DeviceHistory,CorrelatorData, UserData,LanguagePreferences,
SubjectOfCall, MessageInfo FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

QueuedEvent ::= SEQUENCE
{ queuedConnection          ConnectionID,
  queue                      SubjectDeviceID,
  callingDevice               CallingDeviceID,
  calledDevice                CalledDeviceID,
  lastRedirectionDevice      RedirectionDeviceID,
  numberQueued                [ 0] IMPLICIT INTEGER           OPTIONAL,
  callsInFront                [ 1] IMPLICIT INTEGER           OPTIONAL,
  localConnectionInfo         LocalConnectionState        OPTIONAL,
  correlatorData              [ 2] IMPLICIT CorrelatorData    OPTIONAL,
  userData                    UserData                     OPTIONAL,
  cause                       EventCause,
  servicesPermitted           [ 3] IMPLICIT ServicesPermitted   OPTIONAL,
  networkCallingDevice        NetworkCallingDeviceID     OPTIONAL,
  networkCalledDevice         NetworkCalledDeviceID     OPTIONAL,
  associatedCallingDevice     AssociatedCallingDeviceID   OPTIONAL,
  associatedCalledDevice      AssociatedCalledDeviceID   OPTIONAL,
  mediaCallCharacteristics   [ 4] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics         [ 5] IMPLICIT CallCharacteristics  OPTIONAL,
  queuedConnectionInfo        [ 6] IMPLICIT ConnectionInformation OPTIONAL,
}

```

| | | |
|---------------------|-----------------------------------|------------|
| callLinkageData | [7] IMPLICIT CallLinkageData | OPTIONAL, |
| subjectOfCall | [8] IMPLICIT SubjectOfCall | OPTIONAL, |
| messageInfo | [9] IMPLICIT MessageInfo | OPTIONAL, |
| languagePreferences | [10] IMPLICIT LanguagePreferences | OPTIONAL, |
| deviceHistory | [11] IMPLICIT DeviceHistory | OPTIONAL, |
| locationInfo | [12] IMPLICIT LocationInfoList | OPTIONAL, |
| extensions | CSTACommonArguments | OPTIONAL } |

END -- of CSTA-queued-event

15.2.16 Retrieved

```

CSTA-retrieved-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) retrieved-event( 33) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

RetrievedEvent ::= SEQUENCE
{ retrievedConnection      ConnectionID,
  retrievingDevice        SubjectDeviceID,
  localConnectionInfo     LocalConnectionState OPTIONAL,
  correlatorData          [0] IMPLICIT CorrelatorData OPTIONAL,
  cause                   EventCause,
  servicesPermitted       [1] IMPLICIT ServicesPermitted OPTIONAL,
  mediaCallCharacteristics [2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics     [3] IMPLICIT CallCharacteristics OPTIONAL,
  retrievedConnectionInfo [4] IMPLICIT ConnectionInformation OPTIONAL,
  callLinkageData          [5] IMPLICIT CallLinkageData OPTIONAL,
  languagePreferences      [6] IMPLICIT LanguagePreferences OPTIONAL,
  locationInfo            [7] IMPLICIT LocationInfoList OPTIONAL,
  extensions              CSTACurrentArguments OPTIONAL }

END -- of CSTA-retrieved-event

```

15.2.17 Service initiated

```

CSTA-service-initiated-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) service-initiated-event( 34) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID, AssociatedCallingDeviceID, NetworkCalledDeviceID,
NetworkCallingDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CorrelatorData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
MessageInfo, SubjectOfCall, LanguagePreferences FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CalledDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

ServiceInitiatedEvent ::= SEQUENCE
{ initiatedConnection      ConnectionID,
  initiatingDevice        SubjectDeviceID,
  calledDevice             CalledDeviceID           OPTIONAL,
  localConnectionInfo     LocalConnectionState    OPTIONAL,
  correlatorData          [ 0] IMPLICIT CorrelatorData   OPTIONAL,
  cause                   EventCause,
  servicesPermitted       [ 1] IMPLICIT ServicesPermitted OPTIONAL,
  mediaCallCharacteristics [ 2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics     [ 3] IMPLICIT CallCharacteristics OPTIONAL,
}

```

```
initiatedConnectionInfo [ 4] IMPLICIT ConnectionInformation           OPTIONAL,
networkCallingDevice    NetworkCallingDeviceID                      OPTIONAL,
networkCalledDevice     NetworkCalledDeviceID                     OPTIONAL,
associatedCallingDevice AssociatedCallingDeviceID                OPTIONAL,
callLinkageData         [ 5] IMPLICIT CallLinkageData                  OPTIONAL,
subjectOfCall           [ 7] IMPLICIT SubjectOfCall                 OPTIONAL,
messageInfo             [ 8] IMPLICIT MessageInfo                  OPTIONAL,
languagePreferences    [ 9] IMPLICIT LanguagePreferences            OPTIONAL,
locationInfo           [10] IMPLICIT LocationInfoList               OPTIONAL,
extensions              CSTACurrentArguments                         OPTIONAL }

END -- of CSTA-service-initiated-event
```

15.2.18 Transferred

```

CSTA-transferred-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) transferred-event( 35 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
LocalConnectionState, ConnectionList FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
CallCharacteristics, CallLinkageDataList, ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
ChargingInfo FROM CSTA-charge-info
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) charge-info( 133 ) }
LocationInfoList FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
LanguagePreferences, DeviceHistory FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

TransferredEvent ::= SEQUENCE
{ primaryOldCall           ConnectionID,
  secondaryOldCall          [ 0 ] IMPLICIT ConnectionID           OPTIONAL,
  transferringDevice        SubjectDeviceID,
  transferredToDevice       SubjectDeviceID,
  transferredConnections    [ 1 ] IMPLICIT ConnectionList,
  localConnectionInfo       LocalConnectionState            OPTIONAL,
  correlatorData            [ 2 ] IMPLICIT CorrelatorData      OPTIONAL,
  userData                  UserData                         OPTIONAL,
  chargingInfo              [ 3 ] IMPLICIT ChargingInfo      OPTIONAL,
  cause                     EventCause,
  servicesPermitted         [ 4 ] IMPLICIT ServicesPermitted   OPTIONAL,
  mediaCallCharacteristics  [ 5 ] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics       [ 6 ] IMPLICIT CallCharacteristics OPTIONAL,
}

```

```
callLinkageDataList      [ 7] IMPLICIT CallLinkageDataList      OPTIONAL,  
languagePreferences     [ 8] IMPLICIT LanguagePreferences    OPTIONAL,  
deviceHistory          [ 9] IMPLICIT DeviceHistory        OPTIONAL,  
locationInfo           [10] IMPLICIT LocationInfoList     OPTIONAL  
extensions             CSTACCommonArguments      OPTIONAL }
```

END -- of CSTA-transferred-event

16 Call associated features

16.1 Services

16.1.1 Associate data

```
CSTA-associate-data
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) associate-data( 230 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
AccountInfo, AuthCode, CorrelatorData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
LanguagePreferences, SubjectOfCall FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CallCharacteristics, CallLinkageData, ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
CallQualifyingData FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) };

associateData OPERATION ::=
{   ARGUMENT      AssociateDataArgument
   RESULT        AssociateDataResult
   ERRORS        {universalFailure }
   CODE          local: 230 }

AssociateDataArgument ::= SEQUENCE
{   existingCall      ConnectionID,
   accountCode       [0] IMPLICIT AccountInfo           OPTIONAL,
   authCode          [1] IMPLICIT AuthCode            OPTIONAL,
   correlatorData    [2] IMPLICIT CorrelatorData      OPTIONAL,
   callQualifyingData [3] IMPLICIT CallQualifyingData OPTIONAL,
   callCharacteristics [4] IMPLICIT CallCharacteristics OPTIONAL,
   subjectOfCall     [5] IMPLICIT SubjectOfCall      OPTIONAL,
   languagePreferences [6] IMPLICIT LanguagePreferences OPTIONAL,
```

```
deviceInfo          [ 7 ] IMPLICIT DeviceID  
extensions         CSTACommonArguments  
                   OPTIONAL,  
                   OPTIONAL }  
  
AssociateDataResult ::= CHOICE  
{   extensions   CSTACommonArguments,  
     noData       NULL  }  
  
END -- of CSTA-associate-data
```

16.1.2 Cancel telephony tones

```

CSTA-cancel-telephony-tones
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) cancel-telephony-tones( 231) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

cancelTelephonyTones OPERATION ::=
{ ARGUMENT      CancelTelephonyTonesArgument
  RESULT        CancelTelephonyTonesResult
  ERRORS        {universalFailure }
  CODE          local: 231 }

CancelTelephonyTonesArgument ::= SEQUENCE
{ connectionToStopTone      ConnectionID,
  extensions                CSTACurrentArguments
                            OPTIONAL }

CancelTelephonyTonesResult ::= CHOICE
{ extensions              CSTACurrentArguments,
  noData                  NULL }

END -- of CSTA-cancel-telephony-tones

```

16.1.3 Change Connection Information

```

CSTA-change-connection-information
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) change-connection-information( 377) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) }
CSTACurrentArguments FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

changeConnectionInformation OPERATION ::=
{   ARGUMENT      ChangeConnectionInformationArgument
    RESULT        ChangeConnectionInformationResult
    ERRORS        {universalFailure }
    CODE          local: 377 }

ChangeConnectionInformationArgument ::= SEQUENCE
{   connectionToBeChanged      ConnectionID,
   requestedConnectionInfo     ConnectionInformation,
   extensions                  CSTACurrentArguments
                                OPTIONAL }

ChangeConnectionInformationResult ::= SEQUENCE
{   actualConnectionInfo       ConnectionInformation,
   extensions                 CSTACurrentArguments
                                OPTIONAL }

END -- of CSTA-change-connection-information

```

16.1.4 Generate digits

```

CSTA-generate-digits
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) generate-digits( 232) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

generateDigits  OPERATION ::=

{ ARGUMENT      GenerateDigitsArgument
  RESULT        GenerateDigitsResult
  ERRORS        {universalFailure }
  CODE          local: 232 }

GenerateDigitsArgument ::= SEQUENCE
{ connectionToSendDigits      ConnectionID,
  digitMode                  DigitMode
                                         OPTIONAL,
  charactersToSend           IA5String,
  toneDuration               [0] IMPLICIT INTEGER
                                         OPTIONAL,
  pulseRate                  [1] IMPLICIT INTEGER
                                         OPTIONAL,
  pauseDuration              [2] IMPLICIT INTEGER
                                         OPTIONAL,
  extensions                 CSTACCommonArguments
                                         OPTIONAL }

GenerateDigitsResult ::= CHOICE
{ extensions                CSTACCommonArguments,
  noData                     NULL }

DigitMode ::= ENUMERATED
{ rotaryPulse                (0),
  dTMF                       (1) }

END -- of CSTA-generate-digits

```

16.1.5 Generate telephony tones

```

CSTA-generate-telephony-tones
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) generate-telephony-tones( 233) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
TelephonyTone FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

generateTelephonyTones      OPERATION ::=
{   ARGUMENT      GenerateTelephonyTonesArgument
   RESULT        GenerateTelephonyTonesResult
   ERRORS        {universalFailure }
   CODE          local: 233 }

GenerateTelephonyTonesArgument ::= SEQUENCE
{   connectionToSendTone      ConnectionID,
   toneToSend                TelephonyTone,
   toneDuration               INTEGER                           OPTIONAL,
   extensions                 CSTACurrentArguments           OPTIONAL }

GenerateTelephonyTonesResult ::= CHOICE
{   extensions               CSTACurrentArguments,
   noData                    NULL    }

END  -- of CSTA-generate-telephony-tones

```

16.1.6 Send user information

```

CSTA-send-user-information
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) send-user-information( 234 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
UserData FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

sendUserInfo      OPERATION ::=

{   ARGUMENT      SendUserInfoArgument
   RESULT        SendUserInfoResult
   ERRORS        {universalFailure }
   CODE          local: 234 }

SendUserInfoArgument ::= SEQUENCE
{   existingCall      ConnectionID,
   userData           UserData,
   extensions         CSTACurrentArguments
                      OPTIONAL }

SendUserInfoResult ::= CHOICE
{   extensions       CSTACurrentArguments,
   noData            NULL }

END -- of CSTA-send-user-information

```

16.2 Events

16.2.1 Call information

```

CSTA-call-information-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-information-event( 41) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
CallingDeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
AccountInfo, AuthCode, CorrelatorData, UserData FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageDataList, CallQualifyingData, ServicesPermitted
FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LanguagePreferences, SubjectOfCall FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

CallInformationEvent ::= SEQUENCE
{ connection          ConnectionID,
  device              SubjectDeviceID,
  callingDevice       CallingDeviceID           OPTIONAL,
  accountInfo         [0] IMPLICIT AccountInfo   OPTIONAL,
  authCode            [1] IMPLICIT AuthCode      OPTIONAL,
  correlatorData     [2] IMPLICIT CorrelatorData  OPTIONAL,
  servicesPermitted  [3] IMPLICIT ServicesPermitted OPTIONAL,
  userData            UserData                  OPTIONAL,
  callQualifyingData [4] IMPLICIT CallQualifyingData OPTIONAL,
  connectionInfo      ConnectionInformation    OPTIONAL,
  callLinkageDataList [5] IMPLICIT CallLinkageDataList OPTIONAL,
  callCharacteristics [6] IMPLICIT CallCharacteristics OPTIONAL,
  subjectOfCall       [7] IMPLICIT SubjectOfCall    OPTIONAL,
  languagePreferences [8] IMPLICIT LanguagePreferences OPTIONAL,
  deviceInfo          [9] IMPLICIT DeviceID      OPTIONAL,
  extensions          CSTACurrentArguments    OPTIONAL }

END -- of CSTA-call-information-event

```

16.2.2 Charging

```

CSTA-charging-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) charging-event( 240) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ChargingInfo FROM CSTA-charge-info
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) charge-info( 133) };

ChargingEvent ::= SEQUENCE
{ connection          ConnectionID,
  chargedDevice       DeviceID,
  chargingInfo        ChargingInfo,
  cause                EventCause           OPTIONAL,
  extensions          CSTACurrentArguments OPTIONAL }

END -- of CSTA-charging-event

```

16.2.3 Digits generated

```

CSTA-digits-generated-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) digits-generated-event( 241) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

DigitsGeneratedEvent ::= SEQUENCE
{ connection                  ConnectionID,
  digitGeneratedList          IA5String,
  digitDurationList           [0] IMPLICIT SEQUENCE OF INTEGER      OPTIONAL,
  pauseDurationList           [1] IMPLICIT SEQUENCE OF INTEGER      OPTIONAL,
  connectionInfo               ConnectionInformation                OPTIONAL,
  extensions                  CSTACurrentArguments             OPTIONAL }

END -- of CSTA-digits-generated-event

```

16.2.4 Telephony tones generated

```

CSTA-telephony-tones-generated-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) telephony-tones-generated-event( 242) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
TelephonyTone FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

TelephonyTonesGeneratedEvent ::= SEQUENCE
{ connection          ConnectionID,
  toneGenerated        TelephonyTone        OPTIONAL,
  toneFrequency       [0] IMPLICIT INTEGER   OPTIONAL,
  toneDuration        [1] IMPLICIT INTEGER   OPTIONAL,
  pauseDuration       [2] IMPLICIT INTEGER   OPTIONAL,
  connectionInfo      ConnectionInformation OPTIONAL,
  extensions          CSTACurrentArguments OPTIONAL }

END -- of CSTA-telephony-tones-generated-event

```

16.2.5 Service completion failure

```

CSTA-service-completion-failure-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) service-completion-failure-event( 243) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
MediaCallCharacteristics, ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

ServiceCompletionFailureEvent ::= SEQUENCE
{ primaryCall           PrimaryOrSecondaryCall,
  secondaryCall          [0] IMPLICIT PrimaryOrSecondaryCall           OPTIONAL,
  otherDevsPrimaryCallList [1] IMPLICIT SEQUENCE OF OtherCall        OPTIONAL,
  otherDevsSecondaryCallList [2] IMPLICIT SEQUENCE OF OtherCall        OPTIONAL,
  mediaCallCharacteristics [3] IMPLICIT MediaCallCharacteristics    OPTIONAL,
  cause                  EventCause,
  extensions             CSTACurrentArguments                   OPTIONAL }

PrimaryOrSecondaryCall ::= SEQUENCE
{ deviceID               DeviceID,
  connectionID            ConnectionID,
  localConnectionState     LocalConnectionState,
  connectionInfo           ConnectionInformation                OPTIONAL }

OtherCall ::= SEQUENCE
{ deviceID               DeviceID,
  connectionID            ConnectionID,
  localConnectionState     LocalConnectionState,
  connectionInfo           ConnectionInformation                OPTIONAL }

END -- of CSTA-service-completion-failure-event

```

17 Media attachment services and events

17.1 Services

17.1.1 Attach media service

```
CSTA-attach-media-service
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) attach-media-service( 244 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) connection-states( 125 ) }
CallLinkageData FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
MediaServiceType, MediaServiceInstanceID, ConnectionMode,
ConnectionInformation FROM CSTA-media-services
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) media-services( 136 ) };

attachMediaService OPERATION ::=

{ ARGUMENT      AttachMediaServiceArgument
  RESULT        AttachMediaServiceResult
  ERRORS        {universalFailure}
  CODE          local: 244 }

AttachMediaServiceArgument ::= SEQUENCE
{ connection           ConnectionID,
  mediaServiceType     MediaServiceType,
  mediaServiceVersion  INTEGER                                OPTIONAL,
  mediaServiceInstanceID MediaServiceInstanceID             OPTIONAL,
  connectionMode       ConnectionMode,
  requestedConnectionState LocalConnectionState            OPTIONAL,
  extensions          CSTACurrentArguments               OPTIONAL }

AttachMediaServiceResult ::= SEQUENCE
{ mediaConnection      ConnectionID                         OPTIONAL,
```

```
mediaDevice           [0] IMPLICIT DeviceID           OPTIONAL,  
mediaServiceInstanceID MediaServiceInstanceID   OPTIONAL,  
mediaConnectionInfo    [1] IMPLICIT ConnectionInformation OPTIONAL,  
callLinkageData       [2] IMPLICIT CallLinkageData   OPTIONAL,  
extensions            CSTACCommonArguments  OPTIONAL }
```

END -- of CSTA-attach-media-service

17.1.2 Detach media service

```

CSTA-detach-media-service
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) detach-media-service( 245) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
MediaServiceType FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

detachMediaService OPERATION ::=
{ ARGUMENT      DetachMediaServiceArgument
  RESULT        DetachMediaServiceResult
  ERRORS        {universalFailure }
  CODE          local: 245 }

DetachMediaServiceArgument ::= SEQUENCE
{ connection           ConnectionID,
  mediaServiceType     MediaServiceType,
  extensions          CSTACCommonArguments
                      OPTIONAL }

DetachMediaServiceResult ::= CHOICE
{ extensions          CSTACCommonArguments,
  noData              NULL }

END -- of CSTA-detach-media-service

```

17.2 Events

17.2.1 Media attached

```

CSTA-media-attached-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-attached-event( 246) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
MediaServiceType, MediaServiceInstanceID, MediaStreamID,
MediaCallCharacteristics, ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

MediaAttachedEvent ::= SEQUENCE
{ mediaConnection           ConnectionID,
  mediaDevice                SubjectDeviceID,
  mediaServiceType           MediaServiceType,
  mediaServiceVersion         INTEGER                           OPTIONAL,
  mediaServiceInstanceID      [0] IMPLICIT MediaServiceInstanceID OPTIONAL,
  mediaStreamID               [1] IMPLICIT MediaStreamID    OPTIONAL,
  mediaCallCharacteristics   [2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics         CallCharacteristics          OPTIONAL,
  localConnectionInfo        LocalConnectionState        OPTIONAL,
  mediaConnectionInfo         [3] IMPLICIT ConnectionInformation OPTIONAL,
  extension                  CSTACurrentArguments       OPTIONAL }

END -- of CSTA-media-attached-event

```

17.2.2 Media detached

```

CSTA-media-detached-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-detached-event( 247) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
LocalConnectionState FROM CSTA-connection-states
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) connection-states( 125) }
CSTACommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
MediaServiceType, MediaServiceInstanceID, MediaStreamID,
MediaCallCharacteristics, ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

MediaDetachedEvent ::= SEQUENCE
{ mediaConnection           ConnectionID,
  mediaDevice                SubjectDeviceID,
  mediaServiceType            MediaServiceType,
  mediaServiceVersion          INTEGER                           OPTIONAL,
  mediaServiceInstanceID       [0] IMPLICIT MediaServiceInstanceID OPTIONAL,
  mediaStreamID               [1] IMPLICIT MediaStreamID    OPTIONAL,
  mediaCallCharacteristics    [2] IMPLICIT MediaCallCharacteristics OPTIONAL,
  callCharacteristics          CallCharacteristics        OPTIONAL,
  localConnectionInfo          LocalConnectionState      OPTIONAL,
  mediaConnectionInfo         [3] IMPLICIT ConnectionInformation OPTIONAL,
  extension                  CSTACommonArguments     OPTIONAL }

END -- of CSTA-media-detached-event

```

18 Routing services

18.1 Registration services

18.1.1 Route register

```
CSTA-route-register
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-register( 248) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
RouteRegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
MediaClass FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

routeRegister OPERATION ::=

{ ARGUMENT          RouteRegisterArgument
  RESULT            RouteRegisterResult
  ERRORS           {universalFailure }
  CODE              local: 248 }

RouteRegisterArgument ::= SEQUENCE
{ routeingDevice           DeviceID           OPTIONAL,
  requestedRouteingMediaClass MediaClass        OPTIONAL,
  extensions               CSTACurrentArguments OPTIONAL }

RouteRegisterResult ::= SEQUENCE
{ routeRegisterReqID       RouteRegisterReqID,
  actualRouteingMediaClass MediaClass        OPTIONAL,
  extensions               CSTACurrentArguments OPTIONAL }

END -- of CSTA-route-register
```

18.1.2 Route register abort

```

CSTA-route-register-abort
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-register-abort( 249) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
RouteRegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

routeRegisterAbort OPERATION ::=

{ ARGUMENT          RouteRegisterAbortArgument
  ERRORS            {universalFailure }
  ALWAYS RESPONDS   FALSE
  CODE              local: 249 }

RouteRegisterAbortArgument ::= SEQUENCE
{ routeRegisterReqID      RouteRegisterReqID,
  extensions           CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-route-register-abort

```

18.1.3 Route register cancel

```

CSTA-route-register-cancel
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-register-cancel( 250) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
RouteRegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

routeRegisterCancel OPERATION ::=

{ ARGUMENT      RouteRegisterCancelArgument
  RESULT        RouteRegisterCancelResult
  ERRORS        {universalFailure }
  CODE          local: 250 }

RouteRegisterCancelArgument ::= SEQUENCE
{ routeRegisterReqID   RouteRegisterReqID,
  extensions           CSTACurrentArguments
                      OPTIONAL }

RouteRegisterCancelResult  ::= CHOICE
{ extensions         CSTACurrentArguments,
  noData             NULL }

END -- of CSTA-route-register-cancel

```

18.2 Services

18.2.1 Re-Route

```

CSTA-re-route-request
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) re-route-request( 82) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
CorrelatorData, RouteRegisterReqID, RouteingCrossRefID
FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) };

reRouteRequest OPERATION ::=
{   ARGUMENT           ReRouteRequestArgument
    ERRORS             {universalFailure }
    ALWAYS RESPONDS    FALSE
    CODE               local: 32 }

ReRouteRequestArgument ::= SEQUENCE
{   crossRefIdentifier     RouteingCrossRefID,
    routeRegisterReqID      [0] IMPLICIT RouteRegisterReqID          OPTIONAL,
    replyTimeout            [1] IMPLICIT INTEGER                  OPTIONAL,
    correlatorData          [2] IMPLICIT CorrelatorData          OPTIONAL,
    callLinkageData         [3] IMPLICIT CallLinkageData          OPTIONAL,
    extensions              CSTACurrentArguments          OPTIONAL }

END -- of CSTA-re-route-request

```

18.2.2 Route end

```

CSTA-route-end-request
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-end-request( 85) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure, ErrorValue FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CorrelatorData, RouteRegisterReqID, RouteingCrossRefID  FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

routeEndRequest OPERATION ::=
{ ARGUMENT          RouteEndRequestArgument
  ERRORS            {universalFailure }
  ALWAYS RESPONDS   FALSE
  CODE              local: 35 }

RouteEndRequestArgument ::= SEQUENCE {
  crossRefIdentifier    RouteingCrossRefID,
  routeRegisterReqID    [ 0] IMPLICIT RouteRegisterReqID      OPTIONAL,
  errorValue             [ 1] ErrorValue                  OPTIONAL,
  correlatorData         [ 2] IMPLICIT CorrelatorData     OPTIONAL,
  extensions             CSTACurrentArguments           OPTIONAL }

END -- of CSTA-route-end-request

```

18.2.3 Route reject

```

CSTA-route-reject
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-reject( 86) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CorrelatorData, RouteRegisterReqID, RouteingCrossRefID
FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

routeReject OPERATION ::=

{   ARGUMENT           RouteRejectArgument
    ERRORS             {universalFailure }
    ALWAYS RESPONDS    FALSE
    CODE               local: 36 }

RouteRejectArgument ::= SEQUENCE
{   crossRefIdentifier     RouteingCrossRefID,
    routeRegisterReqID      [0] IMPLICIT RouteRegisterReqID          OPTIONAL,
    rejectCause              [1] IMPLICIT RejectCause            OPTIONAL,
    correlatorData           [2] IMPLICIT CorrelatorData        OPTIONAL,
    extensions                CSTACurrentArguments           OPTIONAL }

RejectCause ::= ENUMERATED
{   busyOverflow          (1),
    queueTimeOverflow      (2),
    capacityOverflow       (3),
    calendarOverflow       (4),
    unknownOverflow         (5)  }

END -- of CSTA-route-reject

```

18.2.4 Route request

```

CSTA-route-request
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-request( 81) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
AssociatedCallingDeviceID, AssociatedCalledDeviceID, CalledDeviceID,
CallingDeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CorrelatorData, SelectValue, RouteRegisterReqID, RouteingCrossRefID
FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallCharacteristics, CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
MessageInfo, LanguagePreferences, SubjectOfCall, DeviceHistory
FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ConnectionInformation, MediaCallCharacteristics FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) };

routeRequest OPERATION ::=
{ ARGUMENT          RouteRequestArgument
  ERRORS            {universalFailure }
  ALWAYS RESPONDS   FALSE
  CODE              local: 31 }

RouteRequestArgument ::= SEQUENCE
{ crossRefIdentifier      RouteingCrossRefID,
  routeRegisterReqID       [ 0] IMPLICIT RouteRegisterReqID           OPTIONAL,
  currentRoute              CalledDeviceID,
  callingDevice              CallingDeviceID,
  routeingDevice             SubjectDeviceID,
  routedCall                ConnectionID,
  routeSelAlgorithm         [ 1] IMPLICIT SelectValue,
  associatedCallingDevice   AssociatedCallingDeviceID,
  associatedCalledDevice    AssociatedCalledDeviceID,
  priority                  [ 2] IMPLICIT BOOLEAN,
  replyTimeout               [ 3] IMPLICIT INTEGER
}

```

```
correlatorData           [ 4] IMPLICIT CorrelatorData           OPTIONAL,
mediaCallCharacteristics [ 5] IMPLICIT MediaCallCharacteristics OPTIONAL,
callCharacteristics      [ 6] IMPLICIT CallCharacteristics   OPTIONAL,
routeCallInfo            [ 7] IMPLICIT ConnectionInformation OPTIONAL,
callLinkageData          [ 8] IMPLICIT CallLinkageData        OPTIONAL,
subjectOfCall             [ 9] IMPLICIT SubjectOfCall       OPTIONAL,
messageInfo              [10] IMPLICIT MessageInfo         OPTIONAL,
languagePreferences      [11] IMPLICIT LanguagePreferences    OPTIONAL,
deviceHistory            [12] IMPLICIT DeviceHistory       OPTIONAL,
extensions               CSTACurrentArguments           OPTIONAL }
```

END -- of CSTA-route-request

18.2.5 Route select

```

CSTA-route-select-request
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-select-request( 83) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CorrelatorData, RetryValue, RouteingCrossRefID, RouteRegisterReqID
FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

routeSelectRequest OPERATION ::=
{   ARGUMENT           RouteSelectRequestArgument
    ERRORS             {universalFailure }
    ALWAYS RESPONDS    FALSE
    CODE               local: 33 }

RouteSelectRequestArgument ::= SEQUENCE
{   crossRefIdentifier   RouteingCrossRefID,
    routeRegisterReqID   [ 0] IMPLICIT RouteRegisterReqID      OPTIONAL,
    routeSelected         [ 1] DeviceID,
    alternateRoutes       [ 2] IMPLICIT SEQUENCE OF DeviceID      OPTIONAL,
    remainRetries         [ 3] RetryValue                      OPTIONAL,
    routeUsedReq          [ 4] IMPLICIT BOOLEAN                 OPTIONAL,
    correlatorData        [ 5] IMPLICIT CorrelatorData        OPTIONAL,
    extensions            CSTACurrentArguments                OPTIONAL }

END -- of CSTA-route-select-request

```

18.2.6 Route used

```

CSTA-route-used-request
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) route-used-request( 84) }

DEFINITIONS::=
BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CallingDeviceID, CalledDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CorrelatorData, RouteRegisterReqID, RouteingCrossRefID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CallLinkageData FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

routeUsedRequest OPERATION ::=
{   ARGUMENT          RouteUsedRequestArgument
    ERRORS            {universalFailure}
    ALWAYS RESPONDS  FALSE
    CODE              local: 34 }

RouteUsedRequestArgument ::= SEQUENCE
{   crossRefIdentifier  RouteingCrossRefID,
   routeRegisterReqID  [0] IMPLICIT RouteRegisterReqID           OPTIONAL,
   routeUsed           CalledDeviceID,
   callingDevice       CallingDeviceID,
   domain              BOOLEAN,
   correlatorData      [1] IMPLICIT CorrelatorData,
   callLinkageData     [2] IMPLICIT CallLinkageData,
   extensions          CSTACCommonArguments
                      OPTIONAL }

END -- of CSTA-route-used-request

```

19 Physical device features

19.1 Services

19.1.1 Button press

```

CSTA-button-press
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) button-press( 260) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ButtonID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

buttonPress OPERATION ::=
{   ARGUMENT      ButtonPressArgument
    RESULT        ButtonPressResult
    ERRORS        {universalFailure }
    CODE          local: 260 }

ButtonPressArgument ::= SEQUENCE
{   device           DeviceID,
    button           ButtonID,
    extensions       CSTACurrentArguments
                      OPTIONAL }

ButtonPressResult ::= CHOICE
{   extensions      CSTACurrentArguments,
    noData          NULL }

END -- of CSTA-button-press

```

19.1.2 Get auditory apparatus information

```

CSTA-get-auditory-apparatus-information
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) get-auditory-apparatus-information( 261 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
AuditoryApparatusID, AuditoryApparatusList FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

getAuditoryApparatusInformation OPERATION ::=
{   ARGUMENT      GetAuditoryApparatusInformationArgument
    RESULT        GetAuditoryApparatusInformationResult
    ERRORS        {universalFailure }
    CODE          local: 261 }

GetAuditoryApparatusInformationArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus   AuditoryApparatusID           OPTIONAL,
    extensions         CSTACurrentArguments          OPTIONAL }

GetAuditoryApparatusInformationResult ::= SEQUENCE
{   auditoryApparatusList   AuditoryApparatusList,
    extensions           CSTACurrentArguments        OPTIONAL }

END -- of CSTA-get-auditory-apparatus-information

```

19.1.3 Get button information

```

CSTA-get-button-information
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-button-information( 262) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ButtonID, LampID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getButtonInformation OPERATION ::=
{   ARGUMENT      GetButtonInformationArgument
    RESULT        GetButtonInformationResult
    ERRORS        {universalFailure }
    CODE          local: 262 }

GetButtonInformationArgument ::= SEQUENCE
{   device           DeviceID,
    button           ButtonID
                           OPTIONAL,
    extensions       CSTACurrentArguments
                           OPTIONAL }

GetButtonInformationResult ::= SEQUENCE
{   buttonList       ButtonList,
    extensions       CSTACurrentArguments
                           OPTIONAL }

ButtonList ::= SEQUENCE OF SEQUENCE
{   button           ButtonID,
    buttonLabel       [0] IMPLICIT IA5String
                           OPTIONAL,
    buttonLabelSettable [1] IMPLICIT BOOLEAN
                           OPTIONAL,
    buttonFunction    [2] IMPLICIT IA5String
                           OPTIONAL,
    buttonAssociatedNumber [3] IMPLICIT DeviceID
                           OPTIONAL,
    buttonAssociatedNumberSettable [4] IMPLICIT BOOLEAN
                           OPTIONAL,
    buttonPressIndicator [5] IMPLICIT BOOLEAN
                           OPTIONAL,
    lampList          SEQUENCE OF LampID
                           OPTIONAL }

END -- of CSTA-get-button-information

```

19.1.4 Get display

```

CSTA-get-display
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-display( 263) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DisplayID, CharacterSet FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getDisplay OPERATION ::=
{   ARGUMENT      GetDisplayArgument
    RESULT        GetDisplayResult
    ERRORS        {universalFailure }
    CODE          local: 263 }

GetDisplayArgument ::= SEQUENCE
{   device           DeviceID,
    display          DisplayID
                           OPTIONAL,
    extensions       CSTACurrentArguments
                           OPTIONAL }

GetDisplayResult ::= SEQUENCE
{   displayList      DisplayList,
    extensions       CSTACurrentArguments
                           OPTIONAL }

DisplayList ::= SEQUENCE OF SEQUENCE
{   displayID        DisplayID,
    logicalRows       INTEGER,
    logicalColumns    INTEGER,
    physicalRows      [0] IMPLICIT INTEGER
                           OPTIONAL,
    physicalColumns   [1] IMPLICIT INTEGER
                           OPTIONAL,
    physicalBaseRowNumber [2] IMPLICIT INTEGER
                           OPTIONAL,
    physicalBaseColumnNumber [3] IMPLICIT INTEGER
                           OPTIONAL,
    characterSet      CharacterSet
                           OPTIONAL,
    contentsOfDisplay IA5String }

END -- of CSTA-get-display

```

19.1.5 Get hookswitch status

```

CSTA-get-hookswitch-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-hookswitch-status( 264) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
HookswitchID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getHookswitchStatus OPERATION ::=
{   ARGUMENT      GetHookswitchStatusArgument
   RESULT        GetHookswitchStatusResult
   ERRORS        {universalFailure }
   CODE          local: 264 }

GetHookswitchStatusArgument ::= SEQUENCE
{   device           DeviceID,
   hookswitch        HookswitchID
                           OPTIONAL,
   extensions        CSTACurrentArguments
                           OPTIONAL }

GetHookswitchStatusResult ::= SEQUENCE
{   hookswitchStatusList    HookswitchStatusList,
   extensions            CSTACurrentArguments
                           OPTIONAL }

HookswitchStatusList ::= SEQUENCE OF SEQUENCE
{   hookswitch          HookswitchID,
   hookswitchOnHook     BOOLEAN }

END -- of CSTA-get-hookswitch-status

```

19.1.6 Get lamp information

```

CSTA-get-lamp-information
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-lamp-information( 265) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ButtonID, LampID, LampColor FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getLampInformation OPERATION ::=
{   ARGUMENT      GetLampInformationArgument
    RESULT        GetLampInformationResult
    ERRORS        {universalFailure }
    CODE          local: 265 }

GetLampInformationArgument ::= SEQUENCE
{   device          DeviceID,
    lamp            LampID
                           OPTIONAL,
    extensions      CSTACurrentArguments
                           OPTIONAL }

GetLampInformationResult ::= SEQUENCE
{   lampList        LampList,
    extensions      CSTACurrentArguments
                           OPTIONAL }

LampList ::= SEQUENCE OF SEQUENCE
{   lamp           LampID,
    lampLabel      [0] IMPLICIT OCTET STRING
                           OPTIONAL,
    button         [1] IMPLICIT ButtonID
                           OPTIONAL,
    lampColor      LampColor
                           OPTIONAL }

END -- of CSTA-get-lamp-information

```

19.1.7 Get lamp mode

```

CSTA-get-lamp-mode
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-lamp-mode( 266) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ButtonID, LampID, LampColor, LampMode, LampBrightness
FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getLampMode OPERATION ::=
{   ARGUMENT      GetLampModeArgument
    RESULT        GetLampModeResult
    ERRORS        {universalFailure }
    CODElocal:   266 }

GetLampModeArgument ::= SEQUENCE
{   device          DeviceID,
    lamp            LampID
                           OPTIONAL,
    extensions      CSTACurrentArguments
                           OPTIONAL }

GetLampModeResult ::= SEQUENCE
{   lampModeList    LampModeList,
    lamp           LampID
                           OPTIONAL,
    extensions     CSTACurrentArguments
                           OPTIONAL }

LampModeList ::= SEQUENCE OF SEQUENCE
{   lamp           LampID,
    lampMode       LampMode,
    lampBrightness [0] IMPLICIT LampBrightness
                           OPTIONAL,
    lampColor      [1] IMPLICIT LampColor
                           OPTIONAL,
    button         [2] IMPLICIT ButtonID
                           OPTIONAL }

END -- of CSTA-get-lamp-mode

```

19.1.8 Get message waiting indicator

```

CSTA-get-message-waiting-indicator
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-message-waiting-indicator( 267) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getMessageWaitingIndicator OPERATION ::=

{ ARGUMENT      GetMessageWaitingIndicatorArgument
  RESULT        GetMessageWaitingIndicatorResult
  ERRORS        {universalFailure }
  CODE          local: 267 }

GetMessageWaitingIndicatorArgument ::= SEQUENCE
{   device           DeviceID,
    extensions       CSTACurrentArguments
                      OPTIONAL }

GetMessageWaitingIndicatorResult ::= SEQUENCE
{   messageWaitingOn     BOOLEAN,
    deviceForMessage    DeviceID
                      OPTIONAL,
    lampIsPresent       BOOLEAN
                      OPTIONAL,
    extensions         CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-get-message-waiting-indicator

```

19.1.9 Get microphone gain

```

CSTA-get-microphone-gain
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-microphone-gain( 268) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID, MicGainAbs FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getMicrophoneGain OPERATION ::=
{   ARGUMENT      GetMicrophoneGainArgument
    RESULT        GetMicrophoneGainResult
    ERRORS        {universalFailure }
    CODE          local: 268 }

GetMicrophoneGainArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus AuditoryApparatusID
                           OPTIONAL,
    extensions        CSTACurrentArguments
                           OPTIONAL }

GetMicrophoneGainResult ::= SEQUENCE
{   microphoneGainList MicrophoneGainList,
    extensions         CSTACurrentArguments
                           OPTIONAL }

MicrophoneGainList ::= SEQUENCE OF SEQUENCE
{   auditoryApparatus AuditoryApparatusID,
    micGainAbs        MicGainAbs
                           OPTIONAL }

END -- of CSTA-get-microphone-gain

```

19.1.10 Get microphone mute

```

CSTA-get-microphone-mute
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) get-microphone-mute( 269 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
AuditoryApparatusID FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

getMicrophoneMute OPERATION ::=
{   ARGUMENT      GetMicrophoneMuteArgument
    RESULT        GetMicrophoneMuteResult
    ERRORS        {universalFailure }
    CODE          local: 269 }

GetMicrophoneMuteArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus AuditoryApparatusID           OPTIONAL,
    extensions         CSTACurrentArguments         OPTIONAL }

GetMicrophoneMuteResult ::= SEQUENCE
{   microphoneMuteList   MicrophoneMuteList,
    extensions           CSTACurrentArguments       OPTIONAL }

MicrophoneMuteList ::= SEQUENCE OF SEQUENCE
{   auditoryApparatus   AuditoryApparatusID,
    microphoneMuteOn     BOOLEAN }

END -- of CSTA-get-microphone-mute

```

19.1.11 Get ringer status

```

CSTA-get-ringer-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-ringer-status( 270) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
RingerID, RingMode FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getRingerStatus OPERATION ::=
{ ARGUMENT      GetRingerStatusArgument
  RESULT        GetRingerStatusResult
  ERRORS        {universalFailure }
  CODE          local: 270 }

GetRingerStatusArgument ::= SEQUENCE
{ device           DeviceID,
  ringer           RingerID
                           OPTIONAL,
  extensions       CSTACurrentArguments
                           OPTIONAL }

GetRingerStatusResult ::= SEQUENCE
{ ringerStatusList   RingerStatusList,
  extensions        CSTACurrentArguments
                           OPTIONAL }

RingerStatusList ::= SEQUENCE OF SEQUENCE
{ ringer           RingerID,
  ringMode         RingMode,
  ringCount        [0] IMPLICIT INTEGER (0..1000) OPTIONAL,
  ringDuration     [3] IMPLICIT INTEGER OPTIONAL,
  ringPattern      [1] IMPLICIT INTEGER OPTIONAL,
  ringVolAbs       [2] IMPLICIT INTEGER (0..100) OPTIONAL }

END -- of CSTA-get-ringer-status

```

19.1.12 Get speaker mute

```

CSTA-get-speaker-mute
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-speaker-mute( 271) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getSpeakerMute OPERATION ::=
{   ARGUMENT      GetSpeakerMuteArgument
    RESULT        GetSpeakerMuteResult
    ERRORS        {universalFailure }
    CODE          local: 271 }

GetSpeakerMuteArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus AuditoryApparatusID           OPTIONAL,
    extensions        CSTACurrentArguments          OPTIONAL }

GetSpeakerMuteResult ::= SEQUENCE
{   speakerMuteList   SpeakerMuteList,
    extensions        CSTACurrentArguments          OPTIONAL }

SpeakerMuteList ::= SEQUENCE OF SEQUENCE
{   auditoryApparatus AuditoryApparatusID,
    speakerMuteOn    BOOLEAN }

END -- of CSTA-get-speaker-mute

```

19.1.13 Get speaker volume

```

CSTA-get-speaker-volume
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-speaker-volume( 272) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID, VolAbs FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

getSpeakerVolume OPERATION ::=
{   ARGUMENT      GetSpeakerVolumeArgument
    RESULT        GetSpeakerVolumeResult
    ERRORS        {universalFailure }
    CODE          local: 272 }

GetSpeakerVolumeArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus AuditoryApparatusID           OPTIONAL,
    extensions        CSTACurrentArguments          OPTIONAL }

GetSpeakerVolumeResult ::= SEQUENCE
{   speakerVolumeList SpeakerVolumeList,
    extensions        CSTACurrentArguments          OPTIONAL }

SpeakerVolumeList ::= SEQUENCE OF SEQUENCE
{   auditoryApparatus AuditoryApparatusID,
    speakerVolAbs     VolAbs                      OPTIONAL }

END -- of CSTA-get-speaker-volume

```

19.1.14 Set button information

```

CSTA-set-button-information
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) set-button-information( 273 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
ButtonID FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

setButtonInformation OPERATION ::=
{   ARGUMENT      SetButtonInformationArgument
    RESULT        SetButtonInformationResult
    ERRORS        {universalFailure }
    CODE          local: 273 }

SetButtonInformationArgument ::= SEQUENCE
{   device           DeviceID,
    button           ButtonID,
    buttonLabel       IA5String (SIZE(0..64))           OPTIONAL,
    buttonAssociatedNumber DeviceID                   OPTIONAL,
    extensions        CSTACurrentArguments          OPTIONAL }

SetButtonInformationResult ::= CHOICE
{   extensions      CSTACurrentArguments,
    noData          NULL  }

END -- of CSTA-set-button-information

```

19.1.15 Set display

```

CSTA-set-display
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-display( 274) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DisplayID, CharacterSet FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

setDisplay OPERATION ::=
{ ARGUMENT      SetDisplayArgument
  RESULT        SetDisplayResult
  ERRORS        {universalFailure }
  CODE          local: 274 }

SetDisplayArgument ::= SEQUENCE
{ device           DeviceID,
  display          DisplayID
                           OPTIONAL,
  physicalBaseRowNumber [0] IMPLICIT INTEGER
                           OPTIONAL,
  physicalBaseColumnNumber [1] IMPLICIT INTEGER
                           OPTIONAL,
  contentsOfDisplay IA5String (SIZE(0..240)),
  offset            [2] IMPLICIT INTEGER
                           OPTIONAL,
  characterSet     [3] IMPLICIT CharacterSet
                           OPTIONAL,
  extensions       CSTACurrentArguments
                           OPTIONAL }

SetDisplayResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-set-display

```

19.1.16 Set hookswitch status

```

CSTA-set-hookswitch-status
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) set-hookswitch-status( 275 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
HookswitchID FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

setHookswitchStatus OPERATION ::=
{   ARGUMENT      SetHookswitchStatusArgument
   RESULT        SetHookswitchStatusResult
   ERRORS        {universalFailure }
   CODE          local: 275 }

SetHookswitchStatusArgument ::= SEQUENCE
{   device           DeviceID,
   hookswitch        HookswitchID,
   hookswitchOnHook  BOOLEAN,
   extensions        CSTACurrentArguments
                     OPTIONAL }

SetHookswitchStatusResult ::= CHOICE
{   extensions      CSTACurrentArguments,
   noData          NULL }

END -- of CSTA-set-hookswitch-status

```

19.1.17 Set lamp mode

```

CSTA-set-lamp-mode
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-lamp-mode( 276) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
LampID, LampColor, LampMode, LampBrightness
FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

setLampMode OPERATION ::=
{   ARGUMENT      SetLampModeArgument
   RESULT        SetLampModeResult
   ERRORS        {universalFailure }
   CODE          local: 276 }

SetLampModeArgument ::= SEQUENCE
{   device           DeviceID,
   lamp             LampID,
   lampMode         LampMode,
   lampBrightness  LampBrightness           OPTIONAL,
   lampColor        LampColor              OPTIONAL,
   extensions       CSTACurrentArguments OPTIONAL }

SetLampModeResult ::= CHOICE
{   extensions      CSTACurrentArguments,
   noData          NULL    }

END -- of CSTA-set-lamp-mode

```

19.1.18 Set message waiting indicator

```

CSTA-set-message-waiting-indicator
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) set-message-waiting-indicator( 277 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

setMessageWaitingIndicator OPERATION ::=

{ ARGUMENT      SetMessageWaitingIndicatorArgument
  RESULT        SetMessageWaitingIndicatorResult
  ERRORS        {universalFailure }
  CODE          local: 277 }

SetMessageWaitingIndicatorArgument ::= SEQUENCE
{ device           DeviceID,
  messageWaitingOn BOOLEAN,
  deviceForMessage DeviceID                               OPTIONAL,
  extensions       CSTACurrentArguments                OPTIONAL }

SetMessageWaitingIndicatorResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData           NULL }

END -- of CSTA-set-message-waiting-indicator

```

19.1.19 Set microphone gain

```

CSTA-set-microphone-gain
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-microphone-gain( 278) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID, MicrophoneGain FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

setMicrophoneGain OPERATION ::=
{   ARGUMENT      SetMicrophoneGainArgument
    RESULT        SetMicrophoneGainResult
    ERRORS        {universalFailure }
    CODE          local: 278 }

SetMicrophoneGainArgument ::= SEQUENCE
{   device                  DeviceID,
    auditoryApparatus       AuditoryApparatusID,
    microphoneGain           MicrophoneGain,
    extensions               CSTACurrentArguments      OPTIONAL }

SetMicrophoneGainResult ::= CHOICE
{   extensions             CSTACurrentArguments,
    noData                 NULL }

END -- of CSTA-set-microphone-gain

```

19.1.20 Set microphone mute

```

CSTA-set-microphone-mute
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-microphone-mute( 279) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

setMicrophoneMute OPERATION ::=
{   ARGUMENT      SetMicrophoneMuteArgument
    RESULT        SetMicrophoneMuteResult
    ERRORS        {universalFailure }
    CODE          local: 279 }

SetMicrophoneMuteArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus   AuditoryApparatusID,
    microphoneMuteOn     BOOLEAN,
    extensions          CSTACurrentArguments      OPTIONAL }

SetMicrophoneMuteResult ::= CHOICE
{   extensions        CSTACurrentArguments,
    noData            NULL }

END -- of CSTA-set-microphone-mute

```

19.1.21 Set ringer status

```

CSTA-set-ringer-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-ringer-status( 280) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
RingerID, RingMode, Volume FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

setRingerStatus OPERATION ::=
{ ARGUMENT      SetRingerStatusArgument
  RESULT        SetRingerStatusResult
  ERRORS        {universalFailure }
  CODE          local: 280 }

SetRingerStatusArgument ::= SEQUENCE
{ device           DeviceID,
  ringer           RingerID,
  ringMode         RingMode
                           OPTIONAL,
  ringPattern      [1] IMPLICIT INTEGER
                           OPTIONAL,
  ringVolume       [2] Volume
                           OPTIONAL,
  extensions       CSTACurrentArguments
                           OPTIONAL }

SetRingerStatusResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData          NULL }

END -- of CSTA-set-ringer-status

```

19.1.22 Set speaker mute

```

CSTA-set-speaker-mute
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) set-speaker-mute( 281 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
AuditoryApparatusID FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

setSpeakerMute OPERATION ::=
{   ARGUMENT      SetSpeakerMuteArgument
    RESULT        SetSpeakerMuteResult
    ERRORS        {universalFailure }
    CODE          local: 281 }

SetSpeakerMuteArgument ::= SEQUENCE
{   device           DeviceID,
    auditoryApparatus   AuditoryApparatusID,
    speakerMuteOn       BOOLEAN,
    extensions         CSTACurrentArguments     OPTIONAL }

SetSpeakerMuteResult ::= CHOICE
{   extensions       CSTACurrentArguments,
    noData            NULL }

END -- of CSTA-set-speaker-mute

```

19.1.23 Set speaker volume

```

CSTA-set-speaker-volume
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-speaker-volume( 282) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID, Volume FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

setSpeakerVolume OPERATION ::=
{ ARGUMENT      SetSpeakerVolumeArgument
  RESULT        SetSpeakerVolumeResult
  ERRORS        {universalFailure }
  CODE          local: 282 }

SetSpeakerVolumeArgument ::= SEQUENCE
{ device           DeviceID,
  auditoryApparatus AuditoryApparatusID,
  speakerVolume     Volume,
  extensions        CSTACurrentArguments
                    OPTIONAL }

SetSpeakerVolumeResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-set-speaker-volume

```

19.2 Events

19.2.1 Button information

```

CSTA-button-information-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) button-information-event( 283) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ButtonID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

ButtonInformationEvent ::= SEQUENCE
{   device                  SubjectDeviceID,
    button                  ButtonID,
    buttonLabel              IA5String (SIZE(0..64))      OPTIONAL,
    buttonAssociatedNumber   DeviceID                   OPTIONAL,
    buttonPressIndicator     BOOLEAN                  OPTIONAL,
    extensions               CSTACurrentArguments OPTIONAL }

END -- of CSTA-button-information-event

```

19.2.2 Button press

```

CSTA-button-press-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) button-press-event( 284) }
DEFINITIONS ::=
BEGIN

IMPORTS

-- Data Types --
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ButtonID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

ButtonPressEvent ::= SEQUENCE
{ device                  SubjectDeviceID,
  button                 ButtonID,
  buttonLabel             IA5String (SIZE(0..64))      OPTIONAL,
  buttonAssociatedNumber DeviceID                      OPTIONAL,
  extensions              CSTACurrentArguments        OPTIONAL }

END -- of CSTA-button-press-event

```

19.2.3 Display updated

```

CSTA-display-updated-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) display-updated-event( 285 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DisplayID, CharacterSet FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

DisplayUpdatedEvent ::= SEQUENCE
{
  device                  SubjectDeviceID,
  displayID               DisplayID           OPTIONAL,
  logicalRows              INTEGER,
  logicalColumns           INTEGER,
  physicalRows             [ 0 ] IMPLICIT INTEGER   OPTIONAL,
  physicalColumns          [ 1 ] IMPLICIT INTEGER   OPTIONAL,
  physicalBaseRowNumber    [ 2 ] IMPLICIT INTEGER   OPTIONAL,
  physicalBaseColumnNumber [ 3 ] IMPLICIT INTEGER   OPTIONAL,
  characterSet             CharacterSet        OPTIONAL,
  contentsOfDisplay        IA5String,
  extensions               CSTACCommonArguments OPTIONAL
}

END -- of CSTA-display-updated-event

```

19.2.4 Hookswitch

```

CSTA-hookswitch-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) hookswitch-event( 286) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
HookswitchID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

HookswitchEvent ::= SEQUENCE
{   device           SubjectDeviceID,
    hookswitch        HookswitchID,
    hookswitchOnHook  BOOLEAN,
    extensions        CSTACurrentArguments      OPTIONAL }

END -- of CSTA-hookswitch-event

```

19.2.5 Lamp mode

```

CSTA-lamp-mode-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) lamp-mode-event( 287) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
LampID, LampMode, LampBrightness, LampColor
FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

LampModeEvent ::= SEQUENCE
{ device           SubjectDeviceID,
  lamp             LampID,
  lampLabel        OCTET STRING                   OPTIONAL,
  lampMode         LampMode,
  lampBrightness   LampBrightness                OPTIONAL,
  lampColor        LampColor                     OPTIONAL,
  extensions       CSTACurrentArguments          OPTIONAL }

END -- of CSTA-lamp-mode-event

```

19.2.6 Message waiting

```
CSTA-message-waiting-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) message-waiting-event( 44) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

MessageWaitingEvent ::= SEQUENCE
{ targetDevice           SubjectDeviceID,
  deviceForMessage        DeviceID
                           OPTIONAL,
  messageWaitingOn        BOOLEAN,
  extensions              CSTACurrentArguments
                           OPTIONAL }

END -- of CSTA-message-waiting-event
```

19.2.7 Microphone gain

```
CSTA-microphone-gain-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) microphone-gain-event( 288) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID, MicrophoneGain FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

MicrophoneGainEvent ::= SEQUENCE
{ invokingDevice      SubjectDeviceID,
  auditoryApparatus   AuditoryApparatusID,
  microphoneGain       MicrophoneGain,
  extensions           CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-microphone-gain-event
```

19.2.8 Microphone mute

```

CSTA-microphone-mute-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) microphone-mute-event( 45) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

MicrophoneMuteEvent ::= SEQUENCE
{   invokingDevice      SubjectDeviceID,
    auditoryApparatus   AuditoryApparatusID,
    microphoneMuteOn     BOOLEAN,
    extensions           CSTACurrentArguments
                           OPTIONAL }

END -- of CSTA-microphone-mute-event

```

19.2.9 Ringer status

```

CSTA-ringer-status-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) ringer-status-event( 289) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
RingerID, RingMode, Volume FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

RingerStatusEvent ::= SEQUENCE
{ device           SubjectDeviceID,
  ringer           RingerID,
  ringMode         RingMode
                  OPTIONAL,
  ringCount        [0] IMPLICIT INTEGER (0..1000)
                  OPTIONAL,
  ringDuration     [3] IMPLICIT INTEGER
                  OPTIONAL,
  ringPattern      [1] IMPLICIT INTEGER
                  OPTIONAL,
  ringVolume       [2] Volume
                  OPTIONAL,
  extensions       CSTACurrentArguments
                  OPTIONAL }

END -- of CSTA-ringer-status-event

```

19.2.10 Speaker mute

```

CSTA-speaker-mute-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) speaker-mute-event( 46) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

SpeakerMuteEvent ::= SEQUENCE
{ invokingDevice      SubjectDeviceID,
  auditoryApparatus   AuditoryApparatusID,
  speakerMuteOn        BOOLEAN,
  extensions           CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-speaker-mute-event

```

19.2.11 Speaker volume

```

CSTA-speaker-volume-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) speaker-volume-event( 47) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
AuditoryApparatusID, Volume FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

SpeakerVolumeEvent ::= SEQUENCE
{ invokingDevice      SubjectDeviceID,
  auditoryApparatus   AuditoryApparatusID,
  speakerVolume        Volume,
  extensions           CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-speaker-volume-event

```

20 Logical device features

20.1 Services

20.1.1 Call back non-call-related

```
CSTA-call-back-non-call-related
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-back-non-call-related( 300) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

callBackNonCallRelated OPERATION ::=
{ ARGUMENT     CallBackNonCallRelatedArgument
  RESULT       CallBackNonCallRelatedResult
  ERRORS        {universalFailure }
  CODE          local: 300 }

CallBackNonCallRelatedArgument ::= SEQUENCE
{ originatingDevice   DeviceID,
  targetDevice        DeviceID,
  extensions         CSTACurrentArguments           OPTIONAL }

CallBackNonCallRelatedResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData          NULL }

END -- of CSTA-call-back-non-call-related
```

20.1.2 Call back message non-call-related

```

CSTA-call-back-message-non-call-related
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-back-message-non-call-related( 301 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

callBackMessageNonCallRelated OPERATION ::=

{ ARGUMENT     CallBackMessageNonCallRelatedArgument
  RESULT       CallBackMessageNonCallRelatedResult
  ERRORS        {universalFailure }
  CODE          local: 301 }

CallBackMessageNonCallRelatedArgument ::= SEQUENCE
{ originatingDevice   DeviceID,
  targetDevice        DeviceID,
  extensions          CSTACurrentArguments
                      OPTIONAL }

CallBackMessageNonCallRelatedResult ::= CHOICE
{ extensions        CSTACurrentArguments,
  noData            NULL }

END -- of CSTA-call-back-message-non-call-related

```

20.1.3 Cancel call back

```

CSTA-cancel-call-back
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) cancel-call-back( 302) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

cancelCallBack OPERATION ::=

{ ARGUMENT      CancelCallBackArgument
  RESULT        CancelCallBackResult
  ERRORS        {universalFailure }
  CODE          local: 302 }

CancelCallBackArgument ::= SEQUENCE
{ originatingDevice    DeviceID,
  targetDevice         DeviceID,
  extensions           CSTACurrentArguments
                      OPTIONAL }

CancelCallBackResult ::= CHOICE
{ extensions           CSTACurrentArguments,
  noData                NULL }

END -- of CSTA-cancel-call-back

```

20.1.4 Cancel call back message

```

CSTA-cancel-call-back-message
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) cancel-call-back-message( 303 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

cancelCallBackMessage OPERATION ::=

{ ARGUMENT      CancelCallBackMessageArgument
  RESULT        CancelCallBackMessageResult
  ERRORS        {universalFailure }
  CODE          local: 303 }

CancelCallBackMessageArgument ::= SEQUENCE
{ originatingDevice    DeviceID,
  targetDevice         DeviceID,
  extensions           CSTACurrentArguments
                      OPTIONAL }

CancelCallBackMessageResult ::= CHOICE
{ extensions           CSTACurrentArguments,
  noData                NULL }

END -- of CSTA-cancel-call-back-message

```

20.1.5 Get agent state

```

CSTA-get-agent-state
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-agent-state( 304) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, AgentState, PendingAgentState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getAgentState OPERATION ::=
{   ARGUMENT      GetAgentStateArgument
    RESULT        GetAgentStateResult
    ERRORS        {universalFailure }
    CODE          local: 304 }

GetAgentStateArgument ::= SEQUENCE
{   device           DeviceID,
    acdGroup         DeviceID
                           OPTIONAL,
    extensions       CSTACurrentArguments
                           OPTIONAL }

GetAgentStateResult ::= SEQUENCE
{   agentStateList   AgentStateList,
    extensions       CSTACurrentArguments
                           OPTIONAL }

AgentStateList ::= SEQUENCE SIZE (1..32) OF AgentStateEntry

AgentStateEntry ::= SEQUENCE
{   agentID          AgentID
                           OPTIONAL,
    loggedOn         BOOLEAN,
    agentInfo        SEQUENCE OF AgentInfo
                           OPTIONAL }

AgentInfo ::= SEQUENCE
{   acdGroup         DeviceID
                           OPTIONAL,
    agentState       AgentState,
    pendingAgentState [0] IMPLICIT PendingAgentState
                           OPTIONAL,
    agentStateCondition [1] IMPLICIT AgentStateCondition
                           OPTIONAL }

AgentStateCondition ::= ENUMERATED
{   forcedPause (0),
    other        (1) }

END -- of CSTA-get-agent-state

```

20.1.6 Get auto answer

```

CSTA-get-auto-answer
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-auto-answer( 305) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getAutoAnswer OPERATION ::=
{ ARGUMENT      GetAutoAnswerArgument
  RESULT        GetAutoAnswerResult
  ERRORS        {universalFailure }
  CODE          local: 305 }

GetAutoAnswerArgument ::= SEQUENCE
{ device          DeviceID,
  extensions     CSTACurrentArguments OPTIONAL }

GetAutoAnswerResult ::= SEQUENCE
{ autoAnswerOn    BOOLEAN,
  numberOfRings   INTEGER
                           OPTIONAL,
  extensions     CSTACurrentArguments
                           OPTIONAL }

END -- of CSTA-get-auto-answer

```

20.1.7 Get auto work mode

```

CSTA-get-auto-work-mode
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-auto-work-mode( 306) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getAutoWorkMode OPERATION ::=
{ ARGUMENT      GetAutoWorkModeArgument
  RESULT        GetAutoWorkModeResult
  ERRORS        {universalFailure }
  CODE          local: 306 }

GetAutoWorkModeArgument ::= SEQUENCE
{ device           DeviceID,
  extensions       CSTACurrentArguments
                    OPTIONAL }

GetAutoWorkModeResult ::= SEQUENCE
{ autoWorkOn        BOOLEAN,
  autoWorkInterval   INTEGER
                    OPTIONAL,
  extensions        CSTACurrentArguments
                    OPTIONAL }

END -- of CSTA-get-auto-work-mode

```

20.1.8 Get Call Back

```

CSTA-get-call-back
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-call-back( 378) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getCallBack OPERATION ::=

{ ARGUMENT      GetCallBackArgument
  RESULT        GetCallBackResult
  ERRORS        {universalFailure }
  CODE          local: 378 }

GetCallBackArgument ::= SEQUENCE
{ device           DeviceID,
  extensions       CSTACurrentArguments
  OPTIONAL }

GetCallBackResult ::= SEQUENCE
{ callBackList     callBackList,
  extensions       CSTACurrentArguments
  OPTIONAL }

callBackList ::= SEQUENCE OF SEQUENCE
{ originatingDevice   DeviceID,
  targetDevice        DeviceID,
  callBackMessageIndicator BOOLEAN
  OPTIONAL }

END -- of CSTA-get-call-back

```

20.1.9 Get caller id status

```

CSTA-get-caller-id-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-caller-id-status( 307) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getCallerIDStatus OPERATION ::=
{ ARGUMENT      GetCallerIDStatusArgument
  RESULT        GetCallerIDStatusResult
  ERRORS        {universalFailure }
  CODE          local: 307 }

GetCallerIDStatusArgument ::= SEQUENCE
{ device           DeviceID,
  extensions       CSTACurrentArguments
                    OPTIONAL }

GetCallerIDStatusResult ::= SEQUENCE
{ callerIDProvided   BOOLEAN,
  extensions       CSTACurrentArguments
                    OPTIONAL }

END -- of CSTA-get-caller-id-status

```

20.1.10 Get do not disturb

```

CSTA-get-do-not-disturb
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-do-not-disturb( 308) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CallOrigination FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getDoNotDisturb OPERATION ::=
{   ARGUMENT      GetDoNotDisturbArgument
    RESULT        GetDoNotDisturbResult
    ERRORS        {universalFailure }
    CODE          local: 308 }

GetDoNotDisturbArgument ::= SEQUENCE
{   device           DeviceID,
    extensions       CSTACCommonArguments
                      OPTIONAL }

GetDoNotDisturbResult ::= SEQUENCE
{   doNotDisturbOn    BOOLEAN,
    callOrigination   CallOrigination
                      OPTIONAL,
    callingDeviceList  SEQUENCE OF DeviceID
                      OPTIONAL,
    extensions        CSTACCommonArguments
                      OPTIONAL }

END -- of CSTA-get-do-not-disturb

```

20.1.11 Get forwarding

```

CSTA-get-forwarding
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-forwarding( 309) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ForwardList FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getForwarding OPERATION ::=
{   ARGUMENT      GetForwardingArgument
    RESULT        GetForwardingResult
    ERRORS        {universalFailure }
    CODE          local: 309 }

GetForwardingArgument ::= SEQUENCE
{   device           DeviceID,
    extensions       CSTACurrentArguments
                      OPTIONAL }

GetForwardingResult ::= SEQUENCE
{   forwardingList   ForwardList,
    extensions       CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-get-forwarding

```

20.1.12 Get last number dialed

```

CSTA-get-last-number-dialed
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-last-number-dialed( 310) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getLastNumberDialed OPERATION ::=
{ ARGUMENT      GetLastNumberDialedArgument
  RESULT        GetLastNumberDialedResult
  ERRORS        {universalFailure }
  CODE          local: 310 }

GetLastNumberDialedArgument ::= SEQUENCE
{ device           DeviceID,
  extensions       CSTACurrentArguments
                    OPTIONAL }

GetLastNumberDialedResult ::= SEQUENCE
{ numberDialed    DeviceID,
  extensions       CSTACurrentArguments
                    OPTIONAL }

END -- of CSTA-get-last-number-dialed

```

20.1.13 Get presence state

```

CSTA-get-presence-state
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-presence-state( 550) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
PresenceState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
TimeInfo FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getPresenceState OPERATION ::=
{   ARGUMENT      GetPresenceStateArgument
    RESULT        GetPresenceStateResult
    ERRORS        {universalFailure }
    CODE          local: 550 }

GetPresenceStateArgument ::= SEQUENCE
{   device           DeviceID,
    extensions       CSTACurrentArguments
                      OPTIONAL }

GetPresenceStateResult ::= SEQUENCE
{   presenceState     PresenceState,
    fromTime          [0] IMPLICIT TimeInfo
                      OPTIONAL,
    untilTime         [1] IMPLICIT TimeInfo
                      OPTIONAL,
    place             [2] IMPLICIT OCTET STRING
                      OPTIONAL,
    mood              [3] IMPLICIT OCTET STRING
                      OPTIONAL,
    namedPresenceState [4] IMPLICIT OCTET STRING
                      OPTIONAL,
    extensions        CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-get-presence-state

```

20.1.14 Get routeing mode

```

CSTA-get-routeing-mode
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) get-routeing-mode( 311) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

getRouteingMode OPERATION ::=
{   ARGUMENT      GetRouteingModeArgument
   RESULT        GetRouteingModeResult
   ERRORS        {universalFailure }
   CODE          local: 311 }

GetRouteingModeArgument ::= SEQUENCE
{   device           DeviceID,
   extensions       CSTACurrentArguments
                     OPTIONAL }

GetRouteingModeResult ::= SEQUENCE
{   routeingMode     BOOLEAN,
   extensions       CSTACurrentArguments
                     OPTIONAL }

END -- of CSTA-get-routeing-mode

```

20.1.15 Set agent state

```

CSTA-set-agent-state
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-agent-state( 312) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, AgentPassword, PendingAgentState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setAgentState OPERATION ::=
{ ARGUMENT      SetAgentStateArgument
  RESULT        SetAgentStateResult
  ERRORS        {universalFailure }
  CODE          local: 312 }

SetAgentStateArgument ::= SEQUENCE
{ device                  DeviceID,
  requestedAgentState     ReqAgentState,
  agentID                 [2] IMPLICIT AgentID           OPTIONAL,
  password                [3] IMPLICIT AgentPassword   OPTIONAL,
  group                   DeviceID           OPTIONAL,
  extensions              CSTACurrentArguments OPTIONAL }

SetAgentStateResult ::= SEQUENCE
{ pendingAgentState       PendingAgentState   OPTIONAL,
  extensions              CSTACurrentArguments OPTIONAL }

ReqAgentState ::= ENUMERATED
{ loggedOn                (0),
  loggedOff               (1),
  notReady                (2),
  ready                   (3),
  workingAfterCall        (4) }

END -- of CSTA-set-agent-state

```

20.1.16 Set auto answer

```

CSTA-set-auto-answer
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-auto-answer( 313) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setAutoAnswer OPERATION ::=
{ ARGUMENT      SetAutoAnswerArgument
  RESULT        SetAutoAnswerResult
  ERRORS        {universalFailure }
  CODE          local: 313 }

SetAutoAnswerArgument ::= SEQUENCE
{ device           DeviceID,
  autoAnswerOn     BOOLEAN,
  number_of_Rings  INTEGER                               OPTIONAL,
  extensions       CSTACurrentArguments               OPTIONAL }

SetAutoAnswerResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData          NULL }

END -- of CSTA-set-auto-answer

```

20.1.17 Set auto work mode

```

CSTA-set-auto-work-mode
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-auto-work-mode( 314) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setAutoWorkMode OPERATION ::=
{ ARGUMENT      SetAutoWorkModeArgument
  RESULT        SetAutoWorkModeResult
  ERRORS        {universalFailure }
  CODE          local: 314 }

SetAutoWorkModeArgument ::= SEQUENCE
{ device           DeviceID,
  autoWorkOn       BOOLEAN,
  autoWorkInterval INTEGER (0..6000)           OPTIONAL,
  extensions       CSTACurrentArguments        OPTIONAL }

SetAutoWorkModeResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData          NULL }

END -- of CSTA-set-auto-work-mode

```

20.1.18 Set caller id status

```

CSTA-set-caller-id-status
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-caller-id-status( 315) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setCallerIDStatus OPERATION ::=
{ ARGUMENT      SetCallerIDStatusArgument
  RESULT        SetCallerIDStatusResult
  ERRORS        {universalFailure }
  CODE          local: 315 }

SetCallerIDStatusArgument ::= SEQUENCE
{ device           DeviceID,
  callerIDProvided BOOLEAN,
  extensions       CSTACurrentArguments
                    OPTIONAL }

SetCallerIDStatusResult ::= CHOICE
{ extensions     CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-set-caller-id-status

```

20.1.19 Set do not disturb

```

CSTA-set-do-not-disturb
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-do-not-disturb( 316) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CallOrigination FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setDoNotDisturb OPERATION ::=
{ ARGUMENT      SetDoNotDisturbArgument
  RESULT        SetDoNotDisturbResult
  ERRORS        {universalFailure }
  CODE          local: 316 }

SetDoNotDisturbArgument ::= SEQUENCE
{ device           DeviceID,
  doNotDisturbOn   BOOLEAN,
  callOrigination  CallOrigination           OPTIONAL,
  callingDeviceList SEQUENCE OF DeviceID       OPTIONAL,
  extensions       CSTACurrentArguments      OPTIONAL }

SetDoNotDisturbResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData           NULL }

END -- of CSTA-set-do-not-disturb

```

20.1.20 Set forwarding

```

CSTA-set-forwarding
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-forwarding( 317) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ForwardingType FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setForwarding OPERATION ::=
{   ARGUMENT      SetForwardingArgument
   RESULT        SetForwardingResult
   ERRORS        {universalFailure }
   CODE          local: 317 }

SetForwardingArgument ::= SEQUENCE
{   device           DeviceID,
   forwardingType    ForwardingType
                           OPTIONAL,
   activateForward   BOOLEAN,
   forwardDN         DeviceID
                           OPTIONAL,
   ringCount         INTEGER (1..100)
                           OPTIONAL,
   ringDuration      [3] IMPLICIT INTEGER
                           OPTIONAL,
   extensions        CSTACCommonArguments
                           OPTIONAL }

SetForwardingResult ::= CHOICE
{   extensions      CSTACCommonArguments,
   noData          NULL  }

END -- of CSTA-set-forwarding

```

20.1.21 Set presence state

```

CSTA-set-presence-state
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-presence-state( 551) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
PresenceState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
TimeInfo FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setPresenceState OPERATION ::=
{   ARGUMENT      SetPresenceStateArgument
   RESULT        SetPresenceStateResult
   ERRORS        {universalFailure }
   CODE          local: 551 }

SetPresenceStateArgument ::= SEQUENCE
{   device                  DeviceID,
   requestedPresenceState  PresenceState,
   fromTime                [0] IMPLICIT TimeInfo           OPTIONAL,
   untilTime               [1] IMPLICIT TimeInfo           OPTIONAL,
   place                   [2] IMPLICIT OCTET STRING    OPTIONAL,
   mood                    [3] IMPLICIT OCTET STRING    OPTIONAL,
   namedPresenceState     [4] IMPLICIT OCTET STRING    OPTIONAL,
   extensions              CSTACurrentArguments       OPTIONAL }

SetPresenceStateResult ::= CHOICE
{   extensions            CSTACurrentArguments,
   noData                 NULL  }

END -- of CSTA-set-presence-state

```

20.1.22 Set routeing mode

```

CSTA-set-routeing-mode
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-routeing-mode( 318) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

setRouteingMode OPERATION ::=
{ ARGUMENT      SetRouteingModeArgument
  RESULT        SetRouteingModeResult
  ERRORS        {universalFailure }
  CODE          local: 318 }

SetRouteingModeArgument ::= SEQUENCE
{ device         DeviceID,
  routeingMode   BOOLEAN,
  extensions     CSTACurrentArguments
                OPTIONAL }

SetRouteingModeResult ::= CHOICE
{ extensions     CSTACurrentArguments,
  noData        NULL }

END -- of CSTA-set-routeing-mode

```

20.2 Events

20.2.1 Agent busy

```

CSTA-agent-busy-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) agent-busy-event( 319) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, PendingAgentState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AgentBusyEvent ::= SEQUENCE
{ agentDevice           SubjectDeviceID,
  agentID                AgentID                  OPTIONAL,
  acdGroup               DeviceID                OPTIONAL,
  pendingAgentState      [2] IMPLICIT PendingAgentState OPTIONAL,
  cause                  [3] IMPLICIT EventCause    OPTIONAL,
  extensions             CSTACurrentArguments OPTIONAL }

END -- of CSTA-agent-busy-event

```

20.2.2 Agent logged off

```

CSTA-agent-logged-off-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) agent-logged-off-event( 320) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, AgentPassword FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AgentLoggedOffEvent ::= SEQUENCE
{ agentDevice           SubjectDeviceID,
  agentID                [ 2] IMPLICIT AgentID
                           OPTIONAL,
  acdGroup               DeviceID
                           OPTIONAL,
  agentPassword          [ 3] IMPLICIT AgentPassword
                           OPTIONAL,
  cause                  EventCause
                           OPTIONAL,
  extensions             CSTACurrentArguments
                           OPTIONAL }

END -- of CSTA-agent-logged-off-event

```

20.2.3 Agent logged on

```

CSTA-agent-logged-on-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) agent-logged-on-event( 321) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, AgentPassword FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AgentLoggedOnEvent ::= SEQUENCE
{ agentDevice           SubjectDeviceID,
  agentID                [2] IMPLICIT AgentID          OPTIONAL,
  acdGroup               DeviceID                  OPTIONAL,
  agentPassword          [3] IMPLICIT AgentPassword    OPTIONAL,
  cause                  EventCause                OPTIONAL,
  extensions             CSTACurrentArguments      OPTIONAL }

END -- of CSTA-agent-logged-on-event

```

20.2.4 Agent not ready

```

CSTA-agent-not-ready-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) agent-not-ready-event( 322) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AgentNotReadyEvent ::= SEQUENCE
{ agentDevice           SubjectDeviceID,
  agentID                AgentID          OPTIONAL,
  acdGroup               DeviceID         OPTIONAL,
  cause                  EventCause        OPTIONAL,
  extensions             CSTACurrentArguments OPTIONAL }

END -- of CSTA-agent-not-ready-event

```

20.2.5 Agent ready

```

CSTA-agent-ready-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) agent-ready-event( 323) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, AgentPassword FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AgentReadyEvent ::= SEQUENCE
{ agentDevice           SubjectDeviceID,
  agentID                AgentID                  OPTIONAL,
  acdGroup               DeviceID                 OPTIONAL,
  cause                  EventCause               OPTIONAL,
  extensions             CSTACurrentArguments   OPTIONAL }

END -- of CSTA-agent-ready-event

```

20.2.6 Agent working after call

```

CSTA-agent-working-after-call-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) agent-working-after-call-event( 324) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
AgentID, PendingAgentState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AgentWorkingAfterCallEvent ::= SEQUENCE
{ agentDevice           SubjectDeviceID,
  agentID                AgentID
                                         OPTIONAL,
  acdGroup               DeviceID
                                         OPTIONAL,
  pendingAgentState      [2] IMPLICIT ENUMERATED
  { notReady      (0),
    ready        (1),
    null         (2) }                                     OPTIONAL,
  cause          [3] IMPLICIT EventCause
                                         OPTIONAL,
  extensions     CSTACurrentArguments
                                         OPTIONAL }

END -- of CSTA-agent-working-after-call-event

```

20.2.7 Auto answer

```
CSTA-auto-answer-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) auto-answer-event( 40) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AutoAnswerEvent ::= SEQUENCE
{   invokingDevice          SubjectDeviceID,
    autoAnswerOn            BOOLEAN,
    numberOfRings           INTEGER                      OPTIONAL,
    extensions              CSTACurrentArguments        OPTIONAL }

END -- of CSTA-auto-answer-event
```

20.2.8 Auto work mode

```

CSTA-auto-work-mode-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) auto-work-mode-event( 326) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

AutoWorkModeEvent ::= SEQUENCE
{ invokingDevice           SubjectDeviceID,
  autoWorkOn                BOOLEAN,
  autoWorkInterval          INTEGER,
  extensions                 CSTACurrentArguments
                            OPTIONAL }

END -- of CSTA-auto-work-mode-event

```

20.2.9 Call back

```
CSTA-call-back-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-back-event( 327) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

CallBackEvent ::= SEQUENCE
{   originatingDevice           SubjectDeviceID,
    targetDevice                 SubjectDeviceID,
    callBackSetCanceled         BOOLEAN,
    extensions                  CSTACurrentArguments
                                OPTIONAL }

END -- of CSTA-call-back-event
```

20.2.10 Call back message

```

CSTA-call-back-message-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-back-message-event( 328) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

CallBackMessageEvent ::= SEQUENCE
{ originatingDevice           SubjectDeviceID,
  targetDevice                 SubjectDeviceID,
  callBackMsgSetCanceled      BOOLEAN,
  extensions                  CSTACCommonArguments    OPTIONAL }

END -- of CSTA-call-back-message-event

```

20.2.11 Caller id status

```
CSTA-caller-id-status-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) caller-id-status-event( 329) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

CallerIDStatusEvent ::= SEQUENCE
{   device           DeviceID,
    callerIDProvided BOOLEAN,
    extensions        CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-caller-id-status-event
```

20.2.12 Do not disturb

```

CSTA-do-not-disturb-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) do-not-disturb-event( 42) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CallOrigination FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

DoNotDisturbEvent ::= SEQUENCE
{ device                  SubjectDeviceID,
  doNotDisturbOn          BOOLEAN,
  callOrigination         CallOrigination           OPTIONAL,
  callingDeviceList        SEQUENCE OF DeviceID    OPTIONAL,
  extensions              CSTACurrentArguments   OPTIONAL }

END -- of CSTA-do-not-disturb-event

```

20.2.13 Forwarding

```

CSTA-forwarding-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) forwarding-event( 43) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
DeviceID, SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
ForwardingType, ForwardDefault FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

ForwardingEvent ::= SEQUENCE
{ device                  SubjectDeviceID,
  forwardingType          ForwardingType
                           OPTIONAL,
  forwardStatus           BOOLEAN,
  forwardTo                DeviceID
                           OPTIONAL,
  forwardDefault           ForwardDefault
                           OPTIONAL,
  ringCount                INTEGER (1..100)
                           OPTIONAL,
  ringDuration             [4] IMPLICIT INTEGER
                           OPTIONAL,
  extensions               CSTACurrentArguments
                           OPTIONAL }

END -- of CSTA-forwarding-event

```

20.2.14 Presence state

```

CSTA-presence-state-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) presence-state-event( 552) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
PresenceState FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
TimeInfo FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

PresenceStateEvent ::= SEQUENCE
{ device           SubjectDeviceID,
  presenceState    PresenceState,
  fromTime         [0] IMPLICIT TimeInfo          OPTIONAL,
  untilTime        [1] IMPLICIT TimeInfo          OPTIONAL,
  place            [2] IMPLICIT OCTET STRING      OPTIONAL,
  mood             [3] IMPLICIT OCTET STRING      OPTIONAL,
  namedPresenceState [4] IMPLICIT OCTET STRING      OPTIONAL,
  extensions       CSTACurrentArguments OPTIONAL }

END -- of CSTA-presence-state-event

```

20.2.15 Routeing mode

```
CSTA-routeing-mode-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) routeing-mode-event( 332) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

RouteingModeEvent ::= SEQUENCE
{   device           SubjectDeviceID,
    routeingMode      BOOLEAN,
    extensions        CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-routeing-mode-event
```

21 Device maintenance events

21.1 Events

21.1.1 Back in service

```
CSTA-back-in-service-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) back-in-service-event( 333 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

BackInServiceEvent ::= SEQUENCE
{ device                      SubjectDeviceID,
  cause                        EventCause
                                OPTIONAL,
  extensions                   CSTACurrentArguments
                                OPTIONAL }

END -- of CSTA-back-in-service-event
```

21.1.2 Device capabilities changed

```

CSTA-device-capabilities-changed-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-capabilities-changed-event( 334) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

DeviceCapsChangedEvent ::= SEQUENCE
{   device           SubjectDeviceID,
    cause            EventCause          OPTIONAL,
    extensions       CSTACurrentArguments OPTIONAL }

END -- of CSTA-device-capabilities-changed-event

```

21.1.3 Out of service

```

CSTA-out-of-service-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) out-of-service-event( 335) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

OutOfServiceEvent ::= SEQUENCE
{   device           SubjectDeviceID,
    cause            EventCause          OPTIONAL,
    extensions       CSTACurrentArguments OPTIONAL }

END -- of CSTA-out-of-service-event

```

21.1.4 Partially in Service

```

CSTA-partially-in-service-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) partially-in-service( 379) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
SubjectDeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

PartiallyInServiceEvent ::= SEQUENCE
{   device           SubjectDeviceID,
    cause            EventCause
                    OPTIONAL,
    extensions       CSTACurrentArguments
                    OPTIONAL }

END -- of CSTA-partially-in-service-event

```

22 I/O services

22.1 Registration services

22.1.1 I/O register

```
CSTA-io-register
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) io-register( 340 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
IOResultReqID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

ioRegister      OPERATION ::=

{ ARGUMENT      IOResultArgument
  RESULT        IOResultResult
  ERRORS        {universalFailure }
  CODE          local: 340 }

IOResultArgument ::= SEQUENCE
{ ioDevice        DeviceID
  extensions     CSTACurrentArguments
                OPTIONAL,
                OPTIONAL }

IOResultResult ::= SEQUENCE
{ ioResultReqID   IOResultReqID,
  extensions     CSTACurrentArguments
                OPTIONAL }

END -- of CSTA-io-register
```

22.1.2 I/O register abort

```

CSTA-io-register-abort
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) io-register-abort( 341) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IORRegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

ioRegisterAbort OPERATION ::=
{ ARGUMENT           IORRegisterAbortArgument
  ERRORS             {universalFailure }
  ALWAYS RESPONDS    FALSE
  CODE               local: 341 }

IORRegisterAbortArgument ::= SEQUENCE
{ ioRegisterReqID     IORRegisterReqID,
  extensions         CSTACurrentArguments
                      OPTIONAL }

END -- of CSTA-io-register-abort

```

22.1.3 I/O register cancel

```

CSTA-io-register-cancel
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) io-register-cancel( 342) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IORegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

ioRegisterCancel OPERATION ::=
{ ARGUMENT      IORegisterCancelArgument
  RESULT        IORegisterCancelResult
  ERRORS        {universalFailure }
  CODE          local: 342 }

IORegisterCancelArgument ::= SEQUENCE
{ ioRegisterReqID      IORegisterReqID,
  extensions       CSTACurrentArguments           OPTIONAL }

IORegisterCancelResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData          NULL }

END -- of CSTA-io-register-cancel

```

22.2 Services

22.2.1 Data path resumed

```

CSTA-data-path-resumed
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-path-resumed( 118) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IOCrossRefID, IORegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

dataPathResumed OPERATION ::=

{ ARGUMENT      DataPathResumedArgument
  RESULT        DataPathResumedResult
  ERRORS        {universalFailure }
  CODE          local: 118 }

DataPathResumedArgument ::= SEQUENCE
{ ioCrossRefID      IOCrossRefID,
  ioRegisterReqID   IORegisterReqID
  extensions        CSTACurrentArguments
                    OPTIONAL,
  extensions        CSTACurrentArguments
                    OPTIONAL }

DataPathResumedResult ::= CHOICE
{ extensions       CSTACurrentArguments,
  noData           NULL }

END -- of CSTA-data-path-resumed

```

22.2.2 Data path suspended

```

CSTA-data-path-suspended
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-path-suspended( 116) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IOCrossRefID, IORegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

dataPathSuspended OPERATION ::=
{ ARGUMENT      DataPathSuspendedArgument
  RESULT        DataPathSuspendedResult
  ERRORS        {universalFailure }
  CODE          local: 116 }

DataPathSuspendedArgument ::= SEQUENCE
{ ioCrossRefID    IOCrossRefID,
  ioReqRegisterID IORegisterReqID           OPTIONAL,
  extensions      CSTACurrentArguments     OPTIONAL }

DataPathSuspendedResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-data-path-suspended

```

22.2.3 Fast data

```

CSTA-fast-data
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) fast-data( 119) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTAObject FROM CSTA-switching-function-objects
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) switching-function-objects( 122) }
DataPathType, IOResponseID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DisplayID FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

fastData OPERATION ::=
{
  ARGUMENT      FastDataArgument
  RESULT        FastDataResult
  ERRORS        {universalFailure }
  CODE          local: 119 }

FastDataArgument ::= SEQUENCE
{
  ioRegisterReqID      IOResponseID
                           OPTIONAL,
  object               CSTAObject,
  dataPathType         DataPathType
                           OPTIONAL,
  displayAttributes    DisplayAttribute
                           OPTIONAL,
  ioData               OCTET STRING,
                           --corrected 12/2000
  extensions           CSTACurrentArguments
                           OPTIONAL }

FastDataResult ::= CHOICE
{
  extensions           CSTACurrentArguments,
  noData               NULL }

DisplayAttribute ::= SEQUENCE
{
  displayID            DisplayID
                           OPTIONAL,
  physicalBaseRowNumber [0] IMPLICIT INTEGER
                           OPTIONAL,
  physicalBaseColumnNumber [1] IMPLICIT INTEGER
                           OPTIONAL,
  offset                [2] IMPLICIT INTEGER
                           OPTIONAL }

END -- of CSTA-fast-data

```

22.2.4 Resume data path

```

CSTA-resume-data-path
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) resume-data-path( 117) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IOCrossRefID, IORegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

resumeDataPath OPERATION ::=
{ ARGUMENT      ResumeDataPathArgument
  RESULT        ResumeDataPathResult
  ERRORS        {universalFailure }
  CODE          local: 117 }

ResumeDataPathArgument ::= SEQUENCE
{ ioCrossRefID    IOCrossRefID,
  ioRegisterReqID IORegisterReqID           OPTIONAL,
  extensions      CSTACurrentArguments     OPTIONAL }

ResumeDataPathResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-resume-data-path

```

22.2.5 Send broadcast data

```

CSTA-send-broadcast-data
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) send-broadcast-data( 114) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
DataPathType, DisplayAttributeList FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

sendBroadcastData OPERATION ::=
{   ARGUMENT          SendBroadcastDataArgument
   RESULT            SendBroadcastDataResult
   ERRORS           {universalFailure }
   CODE             local: 114 }

SendBroadcastDataArgument ::= SEQUENCE
{   ioData           OCTET STRING,
   dataPathType      DataPathType
   displayAttributes DisplayAttributeList
   extensions        CSTACurrentArguments
                     OPTIONAL,
                     OPTIONAL,
                     OPTIONAL }

SendBroadcastDataResult ::= CHOICE
{   extensions       CSTACurrentArguments,
   noData           NULL }

END -- of CSTA-send-broadcast-data

```

22.2.6 Send data

```

CSTA-send-data
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) send-data( 112) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }

IOCrossRefID, IORegisterReqID, DisplayAttributeList FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

sendData OPERATION ::=
{   ARGUMENT      SendDataArgument
    RESULT        SendDataResult
    ERRORS        {universalFailure }
    CODE          local: 112 }

SendDataArgument ::= SEQUENCE
{   ioCrossRefID      IOCrossRefID,
    ioRegisterReqID    [0] IMPLICIT IORegisterReqID      OPTIONAL,
    displayAttributes  DisplayAttributeList      OPTIONAL,
    ioData             OCTET STRING,
    ioCause            EventCause                OPTIONAL,
    extensions         CSTACurrentArguments      OPTIONAL }

SendDataResult ::= CHOICE
{   extensions       CSTACurrentArguments,
    noData           NULL }

END -- of CSTA-send-data

```

22.2.7 Send multicast data

```

CSTA-send-multicast-data
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) send-multicast-data( 113) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IOCrossRefID, DisplayAttributeList FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

sendMulticastData OPERATION ::=
{ ARGUMENT      SendMulticastDataArgument
  RESULT        SendMulticastDataResult
  ERRORS        {universalFailure }
  CODE          local: 113 }

SendMulticastDataArgument ::= SEQUENCE
{ ioCrossRefIDList      SEQUENCE OF IOCrossRefID,
  ioData                OCTET STRING                               OPTIONAL,
  displayAttributes     DisplayAttributeList                  OPTIONAL,
  extensions            CSTACurrentArguments               OPTIONAL }

SendMulticastDataResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-send-multicast-data

```

22.2.8 Start data path

```

CSTA-start-data-path
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) start-data-path( 110 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTAObject FROM CSTA-switching-function-objects
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) switching-function-objects( 122 ) }
DataPathType, IOCrossRefID, IOResisterReqID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DisplayID FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

startDataPath      OPERATION ::=

{   ARGUMENT      StartDataPathArgument
   RESULT        StartDataPathResult
   ERRORS        {universalFailure }
   CODE          local: 110 }

StartDataPathArgument ::= SEQUENCE
{   ioRegisterReqID           IOResisterReqID           OPTIONAL,
   object                   CSTAObject,                OPTIONAL,
   dataPathDirection         [0] IMPLICIT DataPathDirection OPTIONAL,
   dataPathType              [1] IMPLICIT DataPathType  OPTIONAL,
   displayID                DisplayID,                OPTIONAL,
   numberOfCharactersToCollect [2] IMPLICIT INTEGER  OPTIONAL,
   terminationCharacter     IA5String (SIZE(1..1))  OPTIONAL,
   timeout                  [3] IMPLICIT INTEGER  OPTIONAL,
   extensions               CSTACurrentArguments OPTIONAL }

StartDataPathResult ::= SEQUENCE
{   ioCrossRefID             IOCrossRefID,
   numberOfCharactersToCollect [0] IMPLICIT INTEGER  OPTIONAL,
   terminationCharacter     IA5String(SIZE(1..1))  OPTIONAL,
   timeout                  [1] IMPLICIT INTEGER  OPTIONAL,
   extensions               CSTACurrentArguments OPTIONAL }

DataPathDirection ::= ENUMERATED
{   computeFunctionToObject      (0),
   objectToComputeFunction      (1),
   bidirectional                 (2) }

END -- of CSTA-start-data-path

```

22.2.9 Stop data path

```

CSTA-stop-data-path
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) stop-data-path( 111) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IOCrossRefID, IOReserveReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

stopDataPath OPERATION ::=
{   ARGUMENT      StopDataPathArgument
   RESULT        StopDataPathResult
   ERRORS        {universalFailure }
   CODE          local: 111
}

StopDataPathArgument ::= SEQUENCE
{   ioCrossRefID    IOCROSSRefID,
   ioRegisterReqID  IOReserveReqID           OPTIONAL,
   extensions       CSTACurrentArguments     OPTIONAL }

StopDataPathResult ::= CHOICE
{   extensions      CSTACurrentArguments,
   noData          NULL }

END -- of CSTA-stop-data-path

```

22.2.10 Suspend data path

```

CSTA-suspend-data-path
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) suspend-data-path( 115) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
IOCrossRefID, IORegisterReqID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

suspendDataPath OPERATION ::=
{ ARGUMENT      SuspendDataPathArgument
  RESULT        SuspendDataPathResult
  ERRORS        {universalFailure }
  CODE          local: 115 }

SuspendDataPathArgument ::= SEQUENCE
{ ioCrossRefID    IOCrossRefID,
  ioRegisterReqID IORegisterReqID           OPTIONAL,
  extensions      CSTACurrentArguments     OPTIONAL }

SuspendDataPathResult ::= CHOICE
{ extensions      CSTACurrentArguments,
  noData         NULL }

END -- of CSTA-suspend-data-path

```

23 Data Collection Services

23.1 Services

23.1.1 Data Collected

```

CSTA-data-collected
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collected( 343) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ConnectionInformation FROM CSTA-media-services
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) media-services( 136) }
DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

dataCollected OPERATION ::=
{
  ARGUMENT      DataCollectedArgument
  RESULT        DataCollectedResult
  ERRORS        {universalFailure }
  CODE          local: 343 }

DataCollectedArgument ::= SEQUENCE
{
  dcollCrossRefID      DcollCrossRefID,
  digitsData           [0] IMPLICIT DigitsData
                        OPTIONAL,
  telTonesData         [1] IMPLICIT TelTonesData
                        OPTIONAL,
  connectionInformation [2] IMPLICIT ConnectionInformation
                        OPTIONAL,
  dcollCause            DcollCause
                        OPTIONAL,
  extensions            CSTACurrentArguments
                        OPTIONAL }

DataCollectedResult ::= CHOICE
{
  extensions          CSTACurrentArguments,
  noData              NULL }

DigitsData ::= SEQUENCE
{
  digitsDetected       IA5String (SIZE(0..64)),
  digitsDuration       [0] IMPLICIT SEQUENCE OF INTEGER
                        OPTIONAL,
  digitsPauseDuration [1] IMPLICIT SEQUENCE OF INTEGER
                        OPTIONAL }

```

```

TelTonesData ::= SEQUENCE
{   toneDetected          ToneDetected,
    toneFrequency         [0] IMPLICIT INTEGER
    toneDuration          [1] IMPLICIT INTEGER
    tonePauseDuration     [2] IMPLICIT INTEGER
                           OPTIONAL,
                           OPTIONAL,
                           OPTIONAL }

ToneDetected ::= ENUMERATED
{   beep                  ( 0),
    billing               ( 1),
    busy                  ( 2),
    carrier               ( 3),
    confirmation          ( 4),
    dial                  ( 5),
    faxCNG                ( 6),
    hold                  ( 7),
    howler                ( 8),
    intrusion              ( 9),
    modemCNG              (10),
    park                  (11),
    recordWarning          (12),
    reorder                (13),
    ringback               (14),
    silence                (15),
    sitVC                 (16),
    sitIC                 (17),
    sitRO                 (18),
    sitNC                 (19),
    other                  (20) }

DcollCause ::= ENUMERATED
{   flushCharReceived    ( 0),
    charCountReached     ( 1),
    timeout               ( 2),
    sfTerminated          ( 3) }

END -- of CSTA-data-collected

```

23.1.2 Data Collection Resumed

```

CSTA-data-collection-resumed
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection-resumed( 344) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

dataCollectionResumed OPERATION ::=

{ ARGUMENT      DataCollectionResumedArgument
  RESULT        DataCollectionResumedResult
  ERRORS        {universalFailure }
  CODE          local: 344 }

DataCollectionResumedArgument ::= SEQUENCE
{ dcollCrossRefID      DcollCrossRefID,
  extensions           CSTACCommonArguments
                      OPTIONAL }

DataCollectionResumedResult ::= CHOICE
{ extensions           CSTACCommonArguments,
  noData                NULL }

END -- of CSTA-data-collection-resumed

```

23.1.3 Data Collection Suspended

```

CSTA-data-collection-suspended
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection-suspended( 345) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

dataCollectionSuspended OPERATION ::=
{ ARGUMENT      DataCollectionSuspendedArgument
  RESULT        DataCollectionSuspendedResult
  ERRORS        {universalFailure }
  CODE          local: 345 }

DataCollectionSuspendedArgument ::= SEQUENCE
{ dcollCrossRefID      DcollCrossRefID,
  extensions           CSTACCommonArguments
                      OPTIONAL }

DataCollectionSuspendedResult ::= CHOICE
{ extensions           CSTACCommonArguments,
  noData                NULL }

END -- of CSTA-data-collection-suspended

```

23.1.4 Resume Data Collection

```

CSTA-resume-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) resume-data-collection( 346) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

resumeDataCollection OPERATION ::=
{ ARGUMENT      ResumeDataCollectionArgument
  RESULT        ResumeDataCollectionResult
  ERRORS        {universalFailure }
  CODE          local: 346 }

ResumeDataCollectionArgument ::= SEQUENCE
{ dcollCrossRefID      DcollCrossRefID,
  extensions           CSTACCommonArguments
                      OPTIONAL }

ResumeDataCollectionResult ::= CHOICE
{ extensions           CSTACCommonArguments,
  noData                NULL }

END -- of CSTA-resume-data-collection

```

23.1.5 Start Data Collection

```

CSTA-start-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) start-data-collection( 347) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }

DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

startDataCollection OPERATION ::=
{   ARGUMENT      StartDataCollectionArgument
   RESULT        StartDataCollectionResult
   ERRORS        {universalFailure}
   CODE          local: 347 }

StartDataCollectionArgument ::= SEQUENCE
{   object           CallObject,
   dataCollType       DataCollType           OPTIONAL,
   digitsReportingCriteria DigitsReportingCriteria   OPTIONAL,
   extensions         CSTACCommonArguments    OPTIONAL }

StartDataCollectionResult ::= SEQUENCE
{   dcollCrossRefID   DcollCrossRefID,
   extensions         CSTACCommonArguments    OPTIONAL }

CallObject ::= CHOICE
{   device            DeviceID,
   call               ConnectionID }

DataCollType ::= ENUMERATED
{   digits            (0),
   telTones          (1) }

DigitsReportingCriteria ::= SEQUENCE
{   numChars          [0] IMPLICIT INTEGER           OPTIONAL,
   flushChar          IA5String (SIZE(1..1))        OPTIONAL,
   timeout            [1] IMPLICIT INTEGER           OPTIONAL }

END -- of CSTA-start-data-collection

```

23.1.6 Stop Data Collection

```

CSTA-stop-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) stop-data-collection( 348) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

stopDataCollection OPERATION ::=
{ ARGUMENT      StopDataCollectionArgument
  RESULT        StopDataCollectionResult
  ERRORS        {universalFailure }
  CODE          local: 348 }

StopDataCollectionArgument ::= SEQUENCE
{ dcollCrossRefID      DcollCrossRefID,
  extensions           CSTACCommonArguments
                      OPTIONAL }

StopDataCollectionResult ::= CHOICE
{ extensions         CSTACCommonArguments,
  noData             NULL }

END -- of CSTA-stop-data-collection

```

23.1.7 Suspend Data Collection

```

CSTA-suspend-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) suspend-data-collection( 349) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DcollCrossRefID FROM CSTA-data-collection
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) data-collection( 138) };

suspendDataCollection OPERATION ::=
{ ARGUMENT      SuspendDataCollectionArgument
  RESULT        SuspendDataCollectionResult
  ERRORS        {universalFailure }
  CODE          local: 349 }

SuspendDataCollectionArgument ::= SEQUENCE
{ dcollCrossRefID      DcollCrossRefID,
  extensions           CSTACCommonArguments
                        OPTIONAL }

SuspendDataCollectionResult ::= CHOICE
{ extensions           CSTACCommonArguments,
  noData                NULL }

END -- of CSTA-suspend-data-collection

```

24 Voice unit services and events

24.1 Services

24.1.1 Activate

```

CSTA-activate
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) activate( 512) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

activate OPERATION ::=
{ ARGUMENT      ActivateArgument
  RESULT        ActivateResult
  ERRORS        {universalFailure }
  CODE          local: 512 }

ActivateArgument ::= SEQUENCE
{ overConnection   ConnectionID,
  resource         [0] IMPLICIT ResourceID                      OPTIONAL,
  ruleName         [1] IMPLICIT IA5String,
  grammarName     [2] IMPLICIT IA5String                      OPTIONAL,
  extensions       CSTACurrentArguments                     OPTIONAL }

ActivateResult ::= SEQUENCE
{ extensions       CSTACurrentArguments                      OPTIONAL }

END -- of CSTA-activate

```

24.1.2 Clear

```

CSTA-clear
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) clear( 513) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

clear OPERATION ::=
{   ARGUMENT      ClearArgument
    RESULT        ClearResult
    ERRORS        {universalFailure }
    CODE          local: 513 }

ClearArgument ::= SEQUENCE
{   overConnection      ConnectionID,
    resource            [0] IMPLICIT ResourceID      OPTIONAL,
    extensions          CSTACCommonArguments      OPTIONAL }

ClearResult ::= SEQUENCE
{   extensions          CSTACCommonArguments      OPTIONAL }

END -- of CSTA-clear

```

24.1.3 Concatenate message

```

CSTA-concatenate-message
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) concatenate-message( 500) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

concatenateMessage OPERATION ::=
{ ARGUMENT      ConcatenateMessageArgument
  RESULT        ConcatenateMessageResult
  ERRORS        {universalFailure }
  CODE          local: 500 }

ConcatenateMessageArgument ::= SEQUENCE
{ messagesToConcatenate    SEQUENCE OF MessageID,
  extensions                CSTACurrentArguments           OPTIONAL }

ConcatenateMessageResult ::= SEQUENCE
{ concatenatedMessage     MessageID,
  extensions                CSTACurrentArguments           OPTIONAL }

END -- of CSTA-concatenate-message

```

24.1.4 Deactivate

```

CSTA-deactivate
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) deactivate( 514) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }

ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

deactivate OPERATION ::=
{   ARGUMENT      DeactivateArgument
    RESULT        DeactivateResult
    ERRORS        {universalFailure }
    CODE          local: 514 }

DeactivateArgument ::= SEQUENCE
{   overConnection      ConnectionID,
    resource            [0] IMPLICIT ResourceID           OPTIONAL,
    ruleName             IA5String,
    grammarName          [1] IMPLICIT IA5String          OPTIONAL,
    extensions           [2] IMPLICIT CSTACurrentArguments OPTIONAL }

DeactivateResult ::= SEQUENCE
{   extensions          CSTACurrentArguments          OPTIONAL }

END -- of CSTA-deactivate

```

24.1.5 Delete message

```

CSTA-delete-message
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) delete-message( 501) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

deleteMessage OPERATION ::=
{ ARGUMENT      DeleteMessageArgument
  RESULT        DeleteMessageResult
  ERRORS        {universalFailure }
  CODE          local: 501 }

DeleteMessageArgument ::= SEQUENCE
{ messageToDelete    MessageID,
  extensions           CSTACurrentArguments
                      OPTIONAL }

DeleteMessageResult ::= CHOICE
{ extensions         CSTACurrentArguments,
  noData             NULL }

END -- of CSTA-delete-message

```

24.1.6 Play message

```

CSTA-play-message
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) play-message( 502) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }

MessageID, TerminatingConditions FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }

CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

playMessage OPERATION ::=
{
  ARGUMENT      PlayMessageArgument
  RESULT        PlayMessageResult
  ERRORS        {universalFailure }
  CODE          local: 502 }

PlayMessageArgument ::= SEQUENCE
{
  messageToBePlayed    MessageID,
  overConnection       ConnectionID,
  duration             INTEGER                               OPTIONAL,
  termination          TerminatingConditions           OPTIONAL,
  extensions           CSTACCommonArguments          OPTIONAL }

PlayMessageResult ::= CHOICE
{
  extensions           CSTACCommonArguments,
  noData               NULL   }

END -- of CSTA-play-message

```

24.1.7 Query voice attribute

```

CSTA-query-voice-attribute
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) query-voice-attribute( 503) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, AttributeInfo, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

queryVoiceAttribute OPERATION ::=
{   ARGUMENT      QueryVoiceAttributeArgument
    RESULT        QueryVoiceAttributeResult
    ERRORS        {universalFailure }
    CODE          local: 503 }

QueryVoiceAttributeArgument ::= SEQUENCE
{   messageToQuery      MessageID,
    attributeToQuery     AttributeToQuery,
    resource             [0] IMPLICIT ResourceID           OPTIONAL,
    connection           ConnectionID                  OPTIONAL,
    extensions           CSTACurrentArguments        OPTIONAL }

QueryVoiceAttributeResult ::= SEQUENCE
{   attribute            AttributeInfo,
    extensions           CSTACurrentArguments        OPTIONAL }

AttributeToQuery ::= ENUMERATED
{   encodingAlgorithm     ( 0),
    samplingRate          ( 1),
    duration              ( 2),
    fileName              ( 3),
    currentPosition        ( 4),
    currentSpeed           ( 5),
    currentVolume          ( 6),
    currentLevel           ( 7),
    currentState           ( 8),
    grammars              ( 9),
    language               (10),
    mode                  (11),
    retainAudio            (12),
    silenceTimeout         (13),
}

```

```
maxTimeout          (14),  
babbleTimeout      (15),  
endSilence         (16),  
rejectionThreshold (17),  
autoInterruptible  (18),  
innerXml           (19),  
interDigitTimeout  (20),  
preflush           (21) }  
  
END -- of CSTA-query-voice-attribute
```

24.1.8 Queue

```

CSTA-queue
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) queue( 515) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

queue OPERATION ::=
{   ARGUMENT      QueueArgument
    RESULT        QueueResult
    ERRORS        {universalFailure }
    CODE          local: 515 }

QueueArgument ::= SEQUENCE
{   overConnection      ConnectionID,
    message             MessageID,
    resource            [0] IMPLICIT ResourceID           OPTIONAL,
    text                [1] IMPLICIT IA5String            OPTIONAL,
    extensions          CSTACurrentArguments         OPTIONAL }

QueueResult ::= SEQUENCE
{   extensions          CSTACurrentArguments         OPTIONAL }

END -- of CSTA-queue

```

24.1.9 Record message

```

CSTA-record-message
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) record-message( 511 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
ResourceID, MessageID, EncodingAlgorithm, TerminatingConditions
FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

recordMessage OPERATION ::=
{   ARGUMENT      RecordMessageArgument
   RESULT        RecordMessageResult
   ERRORS        {universalFailure }
   CODE          local: 511 }

RecordMessageArgument ::= SEQUENCE
{   callToBeRecorded    ConnectionID,
   resource            [ 2 ] IMPLICIT ResourceID      OPTIONAL,
   samplingRate        [ 0 ] IMPLICIT INTEGER       OPTIONAL,
   encodingAlgorithm   EncodingAlgorithm           OPTIONAL,
   maxDuration         [ 1 ] IMPLICIT INTEGER       OPTIONAL,
   termination         TerminatingConditions      OPTIONAL,
   extensions          CSTACurrentArguments     OPTIONAL }

RecordMessageResult ::= SEQUENCE
{   resultingMessage   MessageID,
   extensions          CSTACurrentArguments     OPTIONAL }

END -- of CSTA-record-message

```

24.1.10 Reposition

```

CSTA-reposition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) reposition( 504) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

reposition OPERATION ::=
{ ARGUMENT      RepositionArgument
  RESULT        RepositionResult
  ERRORS        {universalFailure }
  CODE          local: 504 }

RepositionArgument ::= SEQUENCE
{ connection           ConnectionID,
  periodOfReposition   Period,
  messageToReposition  MessageID
                        OPTIONAL, --corrected 06/2001
  resource             [0] IMPLICIT ResourceID
                        OPTIONAL,
  extensions           CSTACurrentArguments
                        OPTIONAL }

RepositionResult ::= CHOICE
{ extensions           CSTACurrentArguments,
  noData               NULL }

Period ::= CHOICE
{ absolutePosition     ENUMERATED
  { startOfMessage    (0),
    endOfMessage      (1) },
  relativePosition    INTEGER }

END -- of CSTA-reposition

```

24.1.11 Resume

```

CSTA-resume
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) resume( 505 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }

ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }

ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }

CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

resume OPERATION ::=
{ ARGUMENT      ResumeArgument
  RESULT        ResumeResult
  ERRORS        {universalFailure }
  CODE          local: 505 }

ResumeArgument ::= SEQUENCE
{ connection      ConnectionID,
  messageToResume MessageID
    OPTIONAL, --corrected 06/2001
  resource        [0] IMPLICIT ResourceID
  duration        INTEGER
  extensions      CSTACCommonArguments
    OPTIONAL }

ResumeResult ::= CHOICE
{ extensions      CSTACCommonArguments,
  noData         NULL }

END -- of CSTA-resume

```

24.1.12 Review

```

CSTA-review
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) review( 506) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

review OPERATION ::=
{   ARGUMENT      ReviewArgument
    RESULT        ReviewResult
    ERRORS        {universalFailure }
    CODE          local: 506 }

ReviewArgument ::= SEQUENCE
{   connection           ConnectionID,
    periodToReview       PeriodToReview,
    messageToReview      MessageID
                           OPTIONAL, --corrected 06/2001
    resource             [0] IMPLICIT ResourceID
                           OPTIONAL,
    extensions           CSTACurrentArguments
                           OPTIONAL }

ReviewResult ::= CHOICE
{   extensions           CSTACurrentArguments,
    noData                NULL }

PeriodToReview ::= CHOICE
{   startOfMessage       NULL,
    lengthOfReview        INTEGER }

END -- of CSTA-review

```

24.1.13 Set voice attribute

```

CSTA-set-voice-attribute
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) set-voice-attribute( 507 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
Volume FROM CSTA-physical-device-feature
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) physical-device-feature( 137 ) };

setVoiceAttribute OPERATION ::=
{   ARGUMENT      SetVoiceAttributeArgument
    RESULT        SetVoiceAttributeResult
    ERRORS        {universalFailure}
    CODE          local: 507 }

SetVoiceAttributeArgument ::= SEQUENCE
{   connection           ConnectionID,
    attributeToSet        AttributeToSet,
    message               MessageID           OPTIONAL,
    resource              [0] IMPLICIT ResourceID    OPTIONAL,
    extensions            CSTACCommonArguments OPTIONAL }

SetVoiceAttributeResult ::= CHOICE
{   extensions          CSTACCommonArguments,
    noData               NULL }

AttributeToSet ::= CHOICE
{   currentSpeed         [ 0 ] IMPLICIT INTEGER,
    currentVolume        [ 1 ] Volume,
    currentGain          [ 2 ] IMPLICIT INTEGER (0 .. 100),
    grammars             [ 3 ] IMPLICIT IA5String,
    language              [ 4 ] IMPLICIT IA5String,
    mode                 [ 5 ] IMPLICIT ENUMERATED
                           {   automatic   (0),
                             single     (1),
                             multiple   (2) },
    retainAudio           [ 6 ] IMPLICIT BOOLEAN,
    silenceTimeout        [ 7 ] IMPLICIT INTEGER,
    maxTimeout            [ 8 ] IMPLICIT INTEGER,

```

```
babbleTimeout      [ 9] IMPLICIT INTEGER,  
endSilence        [10] IMPLICIT INTEGER,  
rejectionThreshold [11] IMPLICIT INTEGER,  
autoInterruptible [12] IMPLICIT BOOLEAN,  
innerXML          [13] IMPLICIT IA5String,  
interDigitTimeout [14] IMPLICIT INTEGER,  
preflush          [15] IMPLICIT BOOLEAN }  
  
END -- of CSTA-set-voice-attribute
```

24.1.14 Start

```

CSTA-start
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) start( 516) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
  {joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) error-definition( 120) }

ResourceID, MessageID FROM CSTA-device-feature-types
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) device-feature-types( 127) }

ConnectionID FROM CSTA-call-connection-identifiers
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) call-connection-identifiers( 124) }

CSTACCommonArguments FROM CSTA-extension-types
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) extension-types( 129) };

start OPERATION ::=

{ ARGUMENT StartArgument
  RESULT      StartResult
  ERRORS      {universalFailure }
  CODE        local: 516 }

StartArgument ::= SEQUENCE
{ overConnection ConnectionID,
  resource       [0] IMPLICIT ResourceID          OPTIONAL,
  text           [1] IMPLICIT IA5String          OPTIONAL,
  extensions     CSTACCommonArguments          OPTIONAL }

StartResult ::= SEQUENCE
{ extensions     CSTACCommonArguments          OPTIONAL }

END -- of CSTA-start

```

24.1.15 Stop

```

CSTA-stop
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) stop( 508) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

stop OPERATION ::=
{   ARGUMENT      StopArgument
    RESULT        StopResult
    ERRORS        {universalFailure }
    CODE          local: 508 }

StopArgument ::= SEQUENCE
{   connection           ConnectionID,
    messageToBeStopped  MessageID
                                OPTIONAL,
    resource             [0] IMPLICIT ResourceID
                                OPTIONAL,
    extensions          CSTACurrentArguments
                                OPTIONAL }

StopResult ::= CHOICE
{   extensions          CSTACurrentArguments,
    noData               NULL }

END -- of CSTA-stop

```

24.1.16 Suspend

```

CSTA-suspend
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) suspend( 509) }

DEFINITIONS ::=

BEGIN
IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

suspend OPERATION ::=
{   ARGUMENT      SuspendArgument
    RESULT        SuspendResult
    ERRORS        {universalFailure }
    CODE          local: 509 }

SuspendArgument ::= SEQUENCE
{   connection      ConnectionID,
    message         MessageID
                           OPTIONAL, --corrected 06/2001
    resource        [0] IMPLICIT ResourceID
                           OPTIONAL,
    extensions      CSTACCommonArguments
                           OPTIONAL }

SuspendResult ::= CHOICE
{   extensions      CSTACCommonArguments,
    noData          NULL }

END -- of CSTA-suspend

```

24.1.17 Synthesize message

```

CSTA-synthesize-message
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) synthesize-message( 510) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
ControlData, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

synthesizeMessage OPERATION ::=
{ ARGUMENT      SynthesizeMessageArgument
  RESULT        SynthesizeMessageResult
  ERRORS        {universalFailure }
  CODE          local: 510 }

SynthesizeMessageArgument ::= SEQUENCE
{ textToBeSynthesized      IA5String,
  control                  ControlData           OPTIONAL,
  extensions               CSTACurrentArguments OPTIONAL }

SynthesizeMessageResult ::= SEQUENCE
{ synthesizedMessage       MessageID,
  extensions               CSTACurrentArguments OPTIONAL }

END -- of CSTA-synthesize-message

```

24.2 Events

24.2.1 Bookmark Reached

```

CSTA-bookmark-reached-event
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) bookmark-reached-event( 517 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) event-causes( 121 ) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-connection-identifiers( 124 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) };

BookmarkReachedEvent ::= SEQUENCE
{ overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID           OPTIONAL,
  bookmark             IA5String,
  cause                EventCause                  OPTIONAL,
  servicesPermitted    ServicesPermitted          OPTIONAL,
  extensions           CSTACurrentArguments        OPTIONAL }

END -- of CSTA-bookmark-reached-event

```

24.2.2 Completed

```

CSTA-completed-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) completed-event( 518) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

CompletedEvent ::= SEQUENCE
{   overConnection           ConnectionID,
    resource                  [0] IMPLICIT ResourceID          OPTIONAL,
    cause                     EventCause                   OPTIONAL,
    servicesPermitted         ServicesPermitted        OPTIONAL,
    extensions                CSTACurrentArguments    OPTIONAL }

END -- of CSTA-completed-event

```

24.2.3 DTMF Detected

```

CSTA-dtmf-detected-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) dtmf-detected-event( 519) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

DtmfDetectedEvent ::= SEQUENCE
{   overConnection      ConnectionID,
    resource            [0] IMPLICIT ResourceID           OPTIONAL,
    dtmfChar             IA5String,
    cause                EventCause                  OPTIONAL,
    servicesPermitted    ServicesPermitted          OPTIONAL,
    extensions           CSTACCommonArguments        OPTIONAL }

END -- of CSTA-dtmf-detected-event

```

24.2.4 Emptied

```

CSTA-emptied-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) emptied-event( 520) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

EmptiedEvent ::= SEQUENCE
{ overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID          OPTIONAL,
  cause                EventCause                   OPTIONAL,
  servicesPermitted    ServicesPermitted           OPTIONAL,
  extensions           CSTACurrentArguments        OPTIONAL }

END -- of CSTA-emptied-event

```

24.2.5 Interruption Detected

```

CSTA-interruption-detected-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) interruption-detected-event( 521) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

InterruptionDetectedEvent ::= SEQUENCE
{   overConnection      ConnectionID,
    resource            [0] IMPLICIT ResourceID           OPTIONAL,
    cause                EventCause                     OPTIONAL,
    servicesPermitted    ServicesPermitted          OPTIONAL,
    extensions           CSTACurrentArguments     OPTIONAL }

END -- of CSTA-interruption-detected-event

```

24.2.6 Not Recognized

```

CSTA-not-recognized-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) not-recognized-event( 522) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

NotRecognizedEvent ::=SEQUENCE
{ overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID          OPTIONAL,
  result              IA5String,
  cause               EventCause                      OPTIONAL,
  servicesPermitted   ServicesPermitted             OPTIONAL,
  extensions          CSTACurrentArguments        OPTIONAL }

END -- of CSTA-not-recognized-event

```

24.2.7 Play

```

CSTA-play-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) play( 75) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
ResourceID, MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

PlayEvent ::=SEQUENCE
{ connection           ConnectionID,
  message              MessageID,
  resource             [3] IMPLICIT ResourceID      OPTIONAL,
  length               [0] IMPLICIT INTEGER        OPTIONAL,
  currentPosition       [1] IMPLICIT INTEGER        OPTIONAL,
  speed                [2] IMPLICIT INTEGER        OPTIONAL,
  cause                EventCause                 OPTIONAL,
  servicesPermitted    ServicesPermitted         OPTIONAL,
  extensions           CSTACurrentArguments   OPTIONAL }

END -- of CSTA-play-event

```

24.2.8 Recognized

```

CSTA-recognized-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) recognized-event( 523) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

RecognizedEvent ::=SEQUENCE
{
  overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID          OPTIONAL,
  result              IA5String,
  text                IA5String,
  cause               EventCause                      OPTIONAL,
  servicesPermitted   ServicesPermitted           OPTIONAL,
  extensions          CSTACurrentArguments        OPTIONAL
}

END -- of CSTA-recognized-event

```

24.2.9 Record

```

CSTA-record-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) record( 76) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

RecordEvent ::= SEQUENCE
{ connection          ConnectionID,
  message            MessageID,
  resource           [2] IMPLICIT ResourceID          OPTIONAL,
  length             [0] IMPLICIT INTEGER          OPTIONAL,
  currentPosition     [1] IMPLICIT INTEGER          OPTIONAL,
  cause               EventCause                  OPTIONAL,
  servicesPermitted  ServicesPermitted          OPTIONAL,
  extensions         CSTACurrentArguments    OPTIONAL }

END -- of CSTA-record-event

```

24.2.10 Review

```

CSTA-review-event
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) review( 77) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) call-connection-identifiers( 124) }
MessageID FROM CSTA-device-feature-types
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
  { iso( 1) identified-organization( 3) icd-ecma( 12)
    standard( 0) csta3( 285) call-control( 130) };

ReviewEvent ::= SEQUENCE
{   connection           ConnectionID,
    message              MessageID,
    resource             [2] IMPLICIT ResourceID      OPTIONAL,
    length               [0] IMPLICIT INTEGER        OPTIONAL,
    currentPosition       [1] IMPLICIT INTEGER        OPTIONAL,
    cause                EventCause                 OPTIONAL,
    servicesPermitted    ServicesPermitted        OPTIONAL,
    extensions           CSTACurrentArguments    OPTIONAL }

END -- of CSTA-review-event

```

24.2.11 Silence Timeout Expired

```

CSTA-silence-timeout-expired-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) silence-timeout-expired-event( 524) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

SilenceTimeoutExpiredEvent ::=SEQUENCE
{ overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID          OPTIONAL,
  cause                EventCause                  OPTIONAL,
  servicesPermitted    ServicesPermitted        OPTIONAL,
  extensions           CSTACCommonArguments   OPTIONAL }

END -- of CSTA-silence-timeout-expired-event

```

24.2.12 Speech Detected

```

CSTA-speech-detected-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) speech-detected-event( 525) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

SpeechDetectedEvent ::=SEQUENCE
{
  overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID      OPTIONAL,
  cause               EventCause                  OPTIONAL,
  servicesPermitted   ServicesPermitted        OPTIONAL,
  extensions          CSTACurrentArguments    OPTIONAL
}

END -- of CSTA-speech-detected-event

```

24.2.13 Started

```

CSTA-started-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) started-event( 526) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

StartedEvent ::= SEQUENCE
{ overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID      OPTIONAL,
  cause                EventCause                 OPTIONAL,
  servicesPermitted    ServicesPermitted        OPTIONAL,
  extensions           CSTACurrentArguments   OPTIONAL }

END -- of CSTA-started-event

```

24.2.14 Stop

```

CSTA-stop-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) stop( 78) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

StopEvent ::= SEQUENCE
{ connection           ConnectionID,
  message              MessageID,
  resource             [2] IMPLICIT ResourceID      OPTIONAL,
  length               [0] IMPLICIT INTEGER        OPTIONAL,
  currentPosition       [1] IMPLICIT INTEGER        OPTIONAL,
  cause                EventCause                 OPTIONAL,
  servicesPermitted    ServicesPermitted        OPTIONAL,
  extensions           CSTACommonArguments     OPTIONAL }

END -- of CSTA-stop-event

```

24.2.15 Suspend play

```

CSTA-suspend-play-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) suspend-play( 79) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

SuspendPlayEvent ::= SEQUENCE
{ connection          ConnectionID,
  message             MessageID,
  resource            [2] IMPLICIT ResourceID      OPTIONAL,
  length              [0] IMPLICIT INTEGER        OPTIONAL,
  currentPosition     [1] IMPLICIT INTEGER        OPTIONAL,
  cause                EventCause                 OPTIONAL,
  servicesPermitted   ServicesPermitted        OPTIONAL,
  extensions          CSTACurrentArguments    OPTIONAL }

END -- of CSTA-suspend-play-event

```

24.2.16 Suspend record

```

CSTA-suspend-record-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) suspend-record( 80) }
DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

SuspendRecordEvent ::= SEQUENCE
{ connection          ConnectionID,
  message             MessageID,
  resource            [2] IMPLICIT ResourceID      OPTIONAL,
  length              [0] IMPLICIT INTEGER        OPTIONAL,
  currentPosition     [1] IMPLICIT INTEGER        OPTIONAL,
  cause                EventCause                OPTIONAL,
  servicesPermitted   ServicesPermitted        OPTIONAL,
  extensions          CSTACurrentArguments    OPTIONAL }

END -- of CSTA-suspend-record-event

```

24.2.17 Voice attribute changed

```

CSTA-voice-attributes-change-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) voice-attributes-change-event( 74) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
MessageID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
Volume FROM CSTA-physical-device-feature
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) physical-device-feature( 137) };

VoiceAttributesChangeEvent ::= SEQUENCE
{ connection          ConnectionID,
  message             MessageID,
  resource            [ 4] IMPLICIT ResourceID           OPTIONAL,
  playVolume          [ 0] Volume                  OPTIONAL,
  recordingGain       [ 1] IMPLICIT INTEGER (0 .. 100) OPTIONAL,
  speed               [ 2] IMPLICIT INTEGER           OPTIONAL,
  currentPosition     [ 3] IMPLICIT INTEGER           OPTIONAL,
  grammars            [ 5] IMPLICIT IA5String        OPTIONAL,
  language             [ 6] IMPLICIT IA5String        OPTIONAL,
  mode                [ 7] IMPLICIT ENUMERATED
                      {   automatic    (0),
                        single      (1),
                        multiple    (2) }           OPTIONAL,
  retainAudio          [ 8] IMPLICIT BOOLEAN         OPTIONAL,
  silenceTimeout      [ 9] IMPLICIT INTEGER         OPTIONAL,
  maxTimeout           [10] IMPLICIT INTEGER         OPTIONAL,
  babbleTimeout        [11] IMPLICIT INTEGER         OPTIONAL,
  endSilence           [12] IMPLICIT INTEGER         OPTIONAL,
  rejectionThreshold  [13] IMPLICIT INTEGER         OPTIONAL,
  autoInterruptible   [14] IMPLICIT BOOLEAN         OPTIONAL,
  innerXML             [15] IMPLICIT IA5String        OPTIONAL,
  interDigitTimeout   [16] IMPLICIT INTEGER         OPTIONAL,
  preflush             [17] IMPLICIT BOOLEAN         OPTIONAL,
  cause                EventCause                 OPTIONAL,
  servicesPermitted    ServicesPermitted          OPTIONAL,
}

```

```
extensions           CSTACommonArguments          OPTIONAL }
```

END -- of CSTA-voice-attributes-change-event

24.2.18 VoiceErrorOccurred

```

CSTA-voice-error-occurred-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) voice-error-occurred-event( 527) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) }
ConnectionID FROM CSTA-call-connection-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-connection-identifiers( 124) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
ResourceID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
ServicesPermitted FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

VoiceErrorOccuredEvent ::=SEQUENCE
{
  overConnection      ConnectionID,
  resource            [0] IMPLICIT ResourceID      OPTIONAL,
  cause                EventCause                 OPTIONAL,
  servicesPermitted    ServicesPermitted        OPTIONAL,
  extensions           CSTACCommonArguments   OPTIONAL
}

END -- of CSTA-voice-error-occurred-event

```

25 Call detail record services

25.1 Services

25.1.1 Call detail records notification

```

CSTA-call-detail-records-notification
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-records-notification( 360) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CDRCrossRefID, CDRReason FROM CSTA-call-detail-record
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-record( 132) };

cDRNotification OPERATION ::=
{   ARGUMENT      CDRNotificationArgument
    RESULT        CDRNotificationResult
    ERRORS        {universalFailure }
    CODE          local: 360
  }

CDRNotificationArgument ::= SEQUENCE
{   cdrCrossRefID    CDRCrossRefID,
    cdrReason       CDRReason
    extensions     CSTACurrentArguments
                  OPTIONAL,
    extensions     CSTACurrentArguments
                  OPTIONAL }

CDRNotificationResult ::= CHOICE
{   extensions      CSTACurrentArguments,
    noData         NULL }

END -- of CSTA-call-detail-records-notification

```

25.1.2 Call detail records report

```

CSTA-call-detail-records-report
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-records-report( 361) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CDRCrossRefID, CDRInfo FROM CSTA-call-detail-record
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-record( 132) };

CDRReport OPERATION ::=
{ ARGUMENT      CDRReportArgument
  RESULT        CDRReportResult
  ERRORS        {universalFailure }
  CODE          local: 361 }

CDRReportArgument ::= SEQUENCE
{ cdrCrossRefID      CDRCrossRefID,      --corrected 06/2001
  numberOfRecordsSent   INTEGER (1..128),
  cdrInfo            CDRInfo,
  lastStoredCDRReportSent BOOLEAN,
  extensions         CSTACCommonArguments OPTIONAL,
  extensions         CSTACCommonArguments OPTIONAL }

CDRReportResult ::= CHOICE
{ extensions       CSTACCommonArguments,
  noData           NULL }

END -- of CSTA-call-detail-records-report

```

25.1.3 Send stored call detail records

```

CSTA-send-stored-call-detail-records
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) send-stored-call-detail-records( 362) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CDRCrossRefID, CDRTIMEPeriod FROM CSTA-call-detail-record
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-record( 132) };

sendStoredCDR OPERATION ::=
{ ARGUMENT      SendStoredCDRArgument
  RESULT        SendStoredCDRResult
  ERRORS        {universalFailure }
  CODE          local: 362 }

SendStoredCDRArgument ::= SEQUENCE
{ cdrCrossRefID      CDRCrossRefID,           --corrected 06/2001
  timePeriod        CDRTIMEPeriod,           OPTIONAL,
  extensions        CSTACCommonArguments,    OPTIONAL }

SendStoredCDRResult ::= CHOICE
{ extensions        CSTACCommonArguments,
  noData            NULL }

END -- of CSTA-send-stored-call-detail-records

```

25.1.4 Start call detail records transmission

```

CSTA-start-call-detail-records-transmission
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) start-call-detail-records-transmission( 363) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CDRCrossRefID, CDRTransferMode FROM CSTA-call-detail-record
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-record( 132) };

startCDRTransmission OPERATION ::=

{ ARGUMENT      StartCDRTransmissionArgument
  RESULT        StartCDRTransmissionResult
  ERRORS        {universalFailure }
  CODE          local: 363 }

StartCDRTransmissionArgument ::= SEQUENCE
{ transferMode      CDRTransferMode,
  extensions       CSTACCommonArguments           OPTIONAL }

StartCDRTransmissionResult ::= SEQUENCE
{ cdrCrossRefID    CDRCrossRefID,           --corrected 06/2001
  extensions       CSTACCommonArguments           OPTIONAL }

END -- of CSTA-start-call-detail-records-transmission

```

25.1.5 Stop call detail records transmission

```

CSTA-stop-call-detail-records
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) stop-call-detail-records( 364) }
DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
CDRCrossRefID, CDRTermReason FROM CSTA-call-detail-record
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-detail-record( 132) };

stopCDRTransmission OPERATION ::=
{   ARGUMENT      StopCDRTransmissionArgument
   RESULT        StopCDRTransmissionResult
   ERRORS        {universalFailure }
   CODE          local: 364 }

StopCDRTransmissionArgument ::= SEQUENCE
{   cdrCrossRefID      CDRCrossRefID,           --corrected 06/2001
   cdrTermReason       CDRTermReason           OPTIONAL,
   extensions         CSTACurrentArguments    OPTIONAL }

StopCDRTransmissionResult ::= CHOICE
{   extensions       CSTACurrentArguments,
   noData            NULL }

END  -- of CSTA-stop-call-detail-records

```

26 Location Services

26.1 Services

26.1.1 Get Location Information

```

CSTA-get-location-information
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) get-location-information( 530 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
LocationInfo FROM CSTA-call-control
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) call-control( 130 ) };

getLocationInformation OPERATION ::=
{   ARGUMENT      GetLocationInformationArgument
   RESULT        GetLocationInformationResult
   ERRORS        {universalFailure }
   CODE          local: 530 }

GetLocationInformationArgument ::= SEQUENCE
{   device          DeviceID,
   extensions       CSTACurrentArguments      OPTIONAL }

GetLocationInformationResult ::= SEQUENCE
{   locationInfo    LocationInfo,
   extensions       CSTACurrentArguments      OPTIONAL }

END -- of CSTA-get-location-information

```

26.1.2 Set Location Information

```

CSTA-set-location-information
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) set-location-information( 531) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LocationInfo FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

setLocationInformation OPERATION ::=
{ ARGUMENT      SetLocationInformationArgument
  RESULT        SetLocationInformationResult
  ERRORS        {universalFailure }
  CODE          local: 531 }

SetLocationInformationArgument ::= SEQUENCE
{ device          DeviceID,
  locationInfo    LocationInfo
                           OPTIONAL,
  replaceMode     ReplaceMode
                           OPTIONAL,
  extensions      CSTACurrentArguments
                           OPTIONAL }

SetLocationInformationResult ::= SEQUENCE
{ extensions      CSTACurrentArguments
                           OPTIONAL }

ReplaceMode ::= ENUMERATED
{ replaceAll      (0),
  replacePortion  (1) }

END -- of CSTA-set-location-information

```

26.1.3 Location tracking session resumed

```

CSTA-location-tracking-session-resumed
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) location-tracking-session-resumed( 532 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
LocCrossRefID, LocReason FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) };

locationTrackingSessionResumed OPERATION ::=
{ ARGUMENT      LocationTrackingSessionResumedArgument
  RESULT        LocationTrackingSessionResumedResult
  ERRORS        {universalFailure }
  CODE          local: 532 }

LocationTrackingSessionResumedArgument ::= SEQUENCE
{ locCrossRefID   LocCrossRefID,
  locReason       LocReason           OPTIONAL,
  extensions     CSTACCommonArguments OPTIONAL }

LocationTrackingSessionResumedResult ::= SEQUENCE
{ extensions     CSTACCommonArguments OPTIONAL }

END -- of CSTA-location-tracking-session-resumed

```

26.1.4 Location tracking session suspended

```

CSTA-location-tracking-session-suspended
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) location-tracking-session-suspended( 533) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
LocCrossRefID, LocReason FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

locationTrackingSessionSuspended OPERATION ::=
{   ARGUMENT      LocationTrackingSessionSuspendedArgument
   RESULT        LocationTrackingSessionSuspendedResult
   ERRORS        {universalFailure }
   CODE          local: 533 }

LocationTrackingSessionSuspendedArgument ::= SEQUENCE
{   locCrossRefID      LocCrossRefID,
   locReason           LocReason                               OPTIONAL,
   locationInfoList    LocationInfoList                      OPTIONAL,
   extensions          CSTACCommonArguments                OPTIONAL }

LocationTrackingSessionSuspendedResult ::= SEQUENCE
{   extensions          CSTACCommonArguments              OPTIONAL }

END -- of CSTA-location-tracking-session-suspended

```

26.1.5 Resume Location tracking session

```

CSTA-resume-location-tracking-session
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) resume-location-tracking-session( 534) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

resumeLocationTrackingSession OPERATION ::=
{   ARGUMENT      ResumeLocationTrackingSessionArgument
    RESULT        ResumeLocationTrackingSessionResult
    ERRORS        {universalFailure }
    CODE          local: 534 }

ResumeLocationTrackingSessionArgument ::= SEQUENCE
{   locCrossRefID      LocCrossRefID,
    extensions       CSTACCommonArguments      OPTIONAL }

ResumeLocationTrackingSessionResult ::= SEQUENCE
{   extensions       CSTACCommonArguments      OPTIONAL }

END -- of CSTA-resume-location-tracking-session

```

26.1.6 Location Information Report

```

CSTA-location-information-report
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) location-information-report( 535) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
LocationInfoList FROM CSTA-call-control
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) call-control( 130) };

locationInformationReport OPERATION ::=
{ ARGUMENT      LocationInformationReportArgument
  RESULT        LocationInformationReportResult
  ERRORS        {universalFailure }
  CODE          local: 535 }

LocationInformationReportArgument ::= SEQUENCE
{ locCrossRefID      LocCrossRefID,
  device            DeviceID,
  locationInfoList  LocationInfoList           OPTIONAL,
  extensions        CSTACCommonArguments       OPTIONAL }

LocationInformationReportResult ::= SEQUENCE
{ extensions        CSTACCommonArguments       OPTIONAL }

END -- of CSTA-location-information-report

```

26.1.7 Start Location Tracking Session

```

CSTA-start-location-tracking-session
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) start-location-tracking-session( 536 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definitioneq
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) };

startLocationTrackingSession OPERATION ::=
{   ARGUMENT      StartLocationTrackingSessionArgument
   RESULT        StartLocationTrackingSessionResult
   ERRORS        {universalFailure }
   CODE          local: 536 }

StartLocationTrackingSessionArgument ::= SEQUENCE
{   locDevice           DeviceID,
   collectionType       [0] IMPLICIT CollectionType      OPTIONAL,
   collectionInterval   [1] IMPLICIT INTEGER          OPTIONAL,
   maxCollections      [2] IMPLICIT INTEGER          OPTIONAL,
   collectionFilter     [3] IMPLICIT CollectionFilter  OPTIONAL,
   reportingType       [4] IMPLICIT ReportingType    OPTIONAL,
   reportingInterval   [5] IMPLICIT INTEGER          OPTIONAL,
   reportingCount      [6] IMPLICIT INTEGER          OPTIONAL,
   extensions          CSTACurrentArguments        OPTIONAL }

StartLocationTrackingSessionResult ::= SEQUENCE
{   locCrossRefID       LocCrossRefID,
   pidProfile          PIDProfile                  OPTIONAL,
   extensions          CSTACurrentArguments        OPTIONAL }

CollectionType ::= ENUMERATED
{   periodic            (0),
   periodicWithUpdates (1),
   updatesOnly         (2) }

CollectionFilter ::= SEQUENCE
{   horizontalMovement [0] IMPLICIT INTEGER      OPTIONAL,
   verticalMovement   [1] IMPLICIT INTEGER      OPTIONAL,
   civicAddressChange [2] IMPLICIT INTEGER      OPTIONAL }

ReportingType ::= ENUMERATED

```

```
{   immediate          (0),
    periodic           (1),
    count              (2) }

PIDProfile ::= ENUMERATED
{   pidProfileOption1  (0),
    pidProfileOption2  (1) }

END -- of CSTA-start-location-tracking-session
```

26.1.8 Stop Location Tracking Session

```

CSTA-stop-location-tracking-session
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) stop-location-tracking-session( 537) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definitioneq
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) }
EventCause FROM CSTA-event-causes
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) event-causes( 121) };

stopLocationTrackingSession OPERATION ::=
{   ARGUMENT      StopLocationTrackingSessionArgument
    RESULT        StopLocationTrackingSessionResult
    ERRORS        {universalFailure }
    CODE          local: 537 }

StopLocationTrackingSessionArgument ::= SEQUENCE
{   locCrossRefID   LocCrossRefID,
   reason          EventCause
   extensions      CSTACCommonArguments
                   OPTIONAL,
                   OPTIONAL }

StopLocationTrackingSessionResult ::= SEQUENCE
{   extensions      CSTACCommonArguments
                   OPTIONAL }

END -- of CSTA-stop-location-tracking-session

```

26.1.9 Suspend Location Tracking Session

```

CSTA-suspend-location-tracking-session
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) suspend-location-tracking-session( 538) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definitioneq
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-feature-types( 127) };

suspendLocationTrackingSession OPERATION ::=
{   ARGUMENT      SuspendLocationTrackingSessionArgument
    RESULT        SuspendLocationTrackingSessionResult
    ERRORS        {universalFailure }
    CODE          local: 538 }

SuspendLocationTrackingSessionArgument ::= SEQUENCE
{   locCrossRefID    LocCrossRefID,
    extensions      CSTACurrentArguments
                    OPTIONAL }

SuspendLocationTrackingSessionResult ::= SEQUENCE
{   extensions      CSTACurrentArguments
                    OPTIONAL }

END -- of CSTA-suspend-location-tracking-session

```

26.1.10 Get Location Tracking Capabilities

```
CSTA-get-location-tracking-capabilities
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) get-location-tracking-capabilities( 539 ) }

DEFINITIONS ::=

BEGIN

IMPORTS

OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definitioneq
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
LocCrossRefID FROM CSTA-device-feature-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-feature-types( 127 ) };

getLocationTrackingCapabilities OPERATION ::=
{   ARGUMENT      GetLocationTrackingCapabilitiesArgument
    RESULT        GetLocationTrackingCapabilitiesResult
    ERRORS        {universalFailure }
    CODE          local: 539 }

GetLocationTrackingCapabilitiesArgument ::= SEQUENCE
{   device           DeviceID,
    extensions       CSTACCommonArguments
                      OPTIONAL }

GetLocationTrackingCapabilitiesResult ::= SEQUENCE
{   collectionTypeDefault      ENUMERATED
    {   periodic            (0),
        updatesOnly         (1),
        periodicWithUpdates (2) },
    collectionTypePeriodic      BOOLEAN,
    collectionTypeUpdatesOnly   BOOLEAN,
    collectionTypePeriodicWithUpdates   BOOLEAN,
    collectionIntervalDefault    INTEGER,
    collectionIntervalMin       INTEGER,
    collectionIntervalMax       INTEGER,
    maxCollectionsDefault      INTEGER,
    maxCollectionsMin          INTEGER,
    maxCollectionsMax          INTEGER,
    collectionFilterDefault     ENUMERATED
    {   horizontalMovement    (0),
        verticalMovement     (1),
        civicAddressChange   (2),
        none                 (3) },
    collectionFilterHorizontal  BOOLEAN,
    collectionFilterVertical   BOOLEAN,
    collectionFilterCivicAddress BOOLEAN,
    reportingTypeDefault      ENUMERATED }
```

```
{   immediate          (0),
    periodic           (1),
    count              (2) },
reportingTypeImmediate      BOOLEAN,
reportingTypePeriodic       BOOLEAN,
reportingTypeCount          INTEGER,
reportingIntervalDefault    INTEGER,
reportingIntervalMin        INTEGER,
reportingIntervalMax        INTEGER,
reportingCountDefault       INTEGER,
reportingCountMin           INTEGER,
reportingCountMax           INTEGER,
supportsSuspendingTracking BOOLEAN,
supportsResumingTracking   BOOLEAN,
extensions                  CSTACommonArguments      OPTIONAL }
```

END -- of CSTA-get-location-tracking-capabilities

26.1.11 Get Location Tracking Sessions

```

CSTA-get-location-tracking-sessions
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) get-location-tracking-sessions( 540 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) device-identifiers( 123 ) }
LocationSessionInfoList FROM CSTA-status-reporting
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) status-reporting( 126 ) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) capability-exchange( 131 ) };

getLocationTrackingSessions OPERATION ::=
{   ARGUMENT      GetLocationTrackingSessionsArgument
    RESULT        GetLocationTrackingSessionsResult
    ERRORS        {universalFailure }
    CODE          local: 540 }

GetLocationTrackingSessionsArgument ::= SEQUENCE
{   extensions      CSTACCommonArguments
                           OPTIONAL }

GetLocationTrackingSessionsResult ::= SEQUENCE
{   crossRefIDorRegistrationData CHOICE
{     serviceCrossRefID      ServiceCrossRefID,
     locationSessionInfoList   LocationSessionInfoList },
   extensions      CSTACCommonArguments
                           OPTIONAL }

END -- of CSTA-get-location-tracking-sessions

```

26.1.12 Location Session Info

```

CSTA-location-session-info
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) location-session-info( 541) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
DeviceID FROM CSTA-device-identifiers
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) device-identifiers( 123) }
LocationSessionInfoList FROM CSTA-status-reporting
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) status-reporting( 126) }
ServiceCrossRefID FROM CSTA-capability-exchange
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) capability-exchange( 131) };

locationSessionInfoReport OPERATION ::=
{ ARGUMENT      LocationSessionInfoArgument
  ERRORS        {universalFailure }
  CODE          local: 541 }

LocationSessionInfoArgument ::= SEQUENCE
{ serviceCrossRefID      ServiceCrossRefID           OPTIONAL,
  segmentID              INTEGER                  OPTIONAL,
  lastSegment             BOOLEAN                 ,
  locationSessionInfoList LocationSessionInfoList,
  extensions              CSTACurrentArguments   OPTIONAL }

END -- of CSTA-location-session-info

```

27 Vendor specific extensions services and events

27.1 Registration services

27.1.1 Escape register

```
CSTA-escape-register
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) escape-register( 365 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACurrentArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) }
EscapeRegisterID FROM CSTA-escape-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) escape-types( 135 ) };

escapeRegister OPERATION ::=
{   ARGUMENT      EscapeRegisterArgument
   RESULT        EscapeRegisterResult
   ERRORS        {universalFailure }
   CODE          local: 365 }

EscapeRegisterArgument ::= CHOICE
{   extensions      CSTACurrentArguments,
   noData           NULL  }

EscapeRegisterResult ::= SEQUENCE
{   escapeRegisterID    EscapeRegisterID,
   extensions         CSTACurrentArguments      OPTIONAL  }

END -- of CSTA-escape-register
```

27.1.2 Escape register abort

```

CSTA-escape-register-abort
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-register-abort( 366) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
EscapeRegisterID FROM CSTA-escape-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-types( 135) };

escapeRegisterAbort OPERATION ::=

{ ARGUMENT           EscapeRegisterAbortArgument
  ERRORS             {universalFailure }
  ALWAYS RESPONDS    FALSE
  CODE               local: 366 }

EscapeRegisterAbortArgument ::= SEQUENCE
{ escapeRegisterID      EscapeRegisterID,
  extensions          CSTACCommonArguments      OPTIONAL }

END -- of CSTA-escape-register-abort

```

27.1.3 Escape register cancel

```

CSTA-escape-register-cancel
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-register-cancel( 367) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
EscapeRegisterID FROM CSTA-escape-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-types( 135) };

escapeRegisterCancel OPERATION ::=
{ ARGUMENT      EscapeRegisterCancelArgument
  RESULT        EscapeRegisterCancelResult
  ERRORS        {universalFailure }
  CODE          local: 367 }

EscapeRegisterCancelArgument ::= SEQUENCE
{ escapeRegisterID      EscapeRegisterID,
  extensions            CSTACCommonArguments           OPTIONAL }

EscapeRegisterCancelResult ::= CHOICE
{ extensions          CSTACCommonArguments,
  noData              NULL }

END -- of CSTA-escape-register-cancel

```

27.2 Services

27.2.1 Escape

```

CSTA-escape-service
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-service( 91) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) error-definition( 120) }
CSTASecurityData FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CSTACurrentArguments, CSTAPrivateData FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) }
EscapeRegisterID FROM CSTA-escape-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) escape-types( 135) };

escape OPERATION ::=
{   ARGUMENT      EscapeArgument
    RESULT        EscapeResult
    ERRORS        {universalFailure }
    CODE          local: 51 }

EscapeArgument ::= SEQUENCE
{   escapeRegisterID      EscapeRegisterID           OPTIONAL,
    security              CSTASecurityData         OPTIONAL,
    privateData           CSTAPrivateData          }

EscapeResult  ::= CHOICE
{   extensions           CSTACurrentArguments,
    noData               NULL                  }

END -- of CSTA-escape-service

```

27.2.2 Private data version selection

```

CSTA-private-data-version-selection
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) private-data-version-selection( 368 ) }

DEFINITIONS ::=

BEGIN

IMPORTS
OPERATION, ERROR FROM Remote-Operations-Information-Objects
{ joint-iso-itu-t remote-operations(4) informationObjects(5) version1(0) }

-- Data Types --
universalFailure FROM CSTA-error-definition
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) error-definition( 120 ) }
CSTACCommonArguments FROM CSTA-extension-types
{ iso( 1 ) identified-organization( 3 ) icd-ecma( 12 )
  standard( 0 ) csta3( 285 ) extension-types( 129 ) };

privateDataVersionSelection OPERATION ::=

{   ARGUMENT      PrivateDataVersionSelectionArgument
    RESULT        PrivateDataVersionSelectionResult
    ERRORS        {universalFailure }
    CODE          local: 368 }

PrivateDataVersionSelectionArgument ::= INTEGER

PrivateDataVersionSelectionResult ::= CHOICE
{   extensions      CSTACCommonArguments,
    noData         NULL }

END -- of CSTA-private-data-version-selection

```

27.3 Events

27.3.1 Private event

```
CSTA-private-event
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) private-event( 71) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- Data Types --
CSTASecurityData FROM CSTA-security
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) security( 128) }
CSTAPrivateData FROM CSTA-extension-types
{ iso( 1) identified-organization( 3) icd-ecma( 12)
  standard( 0) csta3( 285) extension-types( 129) };

PrivateEvent ::= SEQUENCE
{   security           CSTASecurityData           OPTIONAL,
    privateData        CSTAPrivateData }

END -- of CSTA-private-event
```



INTERNATIONAL

Annex A

Protocol Implementation Conformance Statement (PICS) Proforma

A.1 Introduction

The Protocol Implementation Conformance Statement (PICS) is a statement of which capabilities and options of the protocol have been implemented. The PICS can have a number of uses, including use:

- by the implementor, as a check-list to reduce the risk of failure to conform to the standard through oversight;
- by the supplier and acquirer (or potential acquirer) of the implementation, as a detailed indication of the capabilities of the implementation, stated relative to the common basis for understanding provided by the standard PICS proforma;
- by the user (or potential user) of the implementation, as a basis for initially checking the possibility of interworking with another implementation (note that, while interworking cannot be guaranteed, failure to interwork can often be predicted from incompatible PICS);
- by a tester, as the basis for selecting appropriate tests against which to assess the claim for conformance of the implementation.

A.2 Conformance

The supplier of a protocol implementation which is claimed to conform to this Standard shall complete a copy of the Protocol Implementation Conformance Statement (PICS) proforma in A.5, PICS proforma

A.3 Instructions for completing the PICS proforma

The first part of the PICS proforma, the Implementation Identification (Implementation identification), is to be completed as indicated with the information necessary to identify fully both the supplier and the implementation. The main part of the PICS proforma, PICS proforma is a fixed format questionnaire divided into subclauses each containing a group of individual items. These items represent options specified in ECMA-269 (mandatory items are not represented). Answers to the questionnaire items are to be provided in the appropriate columns by marking an answer to indicate a restricted choice (Yes or No), and optionally clarifying this response with a comment.

Where a service or event is not supported, as indicated by entering No for the first entry in a table, any parameters or dependent service components in the rest of that table are not applicable, it is then not necessary to complete items in any subsidiary entries in the table.

Note that ECMA-269 should be used as a reference when completing the PICS proforma.

A.4 Implementation identification

| | |
|--|--|
| Supplier | |
| Protocol Version | ASN.1 Protocol for CSTA Phase III, 4 th Edition |
| Date of Statement | |
| Contact point for queries about the PICS | |
| Implementation Name(s) and Version(s) | |
| Other information necessary for full identification - e.g. Name(s) and Version(s) for machines and/or operating systems; system name(s) | |

The first five items are required for all implementations; other information may be completed as appropriate in meeting the requirement for full identification.

The terms Name and Version should be interpreted appropriately to correspond with a supplier's terminology (e.g. Type ,Series ,Model).

A.5 PICS proforma

A.5.1 CSTA Profiles

CSTA Profiles group together services and events, where each profile specifies a set of services and events that are supported by the implementation. Switching Function implementors shall indicate support for one or more profiles in the table below. Specifying support for a profile shall be accompanied by specifying support for the services and events encompassed by the profile, as well as any other services and events that the implementation supports.

Refer to ECMA-269 for a description of the CSTA Services and Events that must be supported for a specific CSTA profile.

| Description: Profile(s) Supported | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Basic Telephony Profile | | | |
| Routeing Profile | | | |
| Level 1a Voice Browser Profile | | | |
| Level 1b Voice Browser Profile | | | |
| Level 2 Voice Browser Profile | | | |
| Minimal uaCSTA Call Control Profile | | | |
| Basic uaCSTA Call Control Profile | | | |
| Advanced uaCSTA Call Control Profile | | | |
| Conferencing uaCSTA Call Control Profile | | | |
| Basic uaCSTA Device Feature Profile | | | |
| Speaker uaCSTA Device Feature Profile | | | |
| Basic Speech Service Profile | | | |
| Advanced Speech Service Profile | | | |

A.5.2 Capability Exchange Services

A.5.2.1 Get CSTA Features

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Get CSTA Features | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.2.2 Get Logical Device Information

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Get Logical Device Information | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| groupDeviceAttributes | | | |

| | | | |
|---------------------------------|--|--|--|
| namedDeviceTypes | | | |
| shortFormDeviceID | | | |
| agentLogOnModels | | | |
| appearanceList | | | |
| otherPhysicalDeviceList | | | |
| miscMonitorCaps | | | |
| associatedGroupList | | | |
| maxCallbacks | | | |
| maxAutoAnswerRings | | | |
| maxActiveCalls | | | |
| maxHeldCalls | | | |
| maxFwdSettings | | | |
| maxDevicesInConf | | | |
| transAndConfSetup | | | |
| deviceOnDeviceMonitorFilter | | | |
| deviceOnConnectionMonitorFilter | | | |
| callOnDeviceMonitorFilter | | | |
| callOnConnectionMonitorFilter | | | |
| mediaClassSupport | | | |
| mediaServiceCapsList | | | |

| | | | |
|---------------------|--|--|--|
| connectionRateList | | | |
| delayToleranceList | | | |
| numberOfChannels | | | |
| maxChannelBind | | | |
| routeingServList | | | |
| logDevServList | | | |
| logDevEvtsList | | | |
| deviceMaintEvtsList | | | |
| security | | | |
| privateData | | | |

A.5.2.3 Get Physical Device Information

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Physical Device Information | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| groupDeviceAttributes | | | |
| namedDeviceTypes | | | |

| | | | |
|---------------------------------|--|--|--|
| otherLogicalDeviceList | | | |
| deviceModelName | | | |
| deviceOnDeviceMonitorFilter | | | |
| deviceOnConnectionMonitorFilter | | | |
| callOnDeviceMonitorFilter | | | |
| callOnConnectionMonitorFilter | | | |
| maxDisplays | | | |
| maxButtons | | | |
| maxLamps | | | |
| maxRingPatterns | | | |
| physDevServList | | | |
| physDevEvtsList | | | |
| security | | | |
| privateData | | | |

A.5.2.4 Get Switching Function Capabilities

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Switching Function Capabilities | | | |
| Service Request optional parameters | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| callCharacteristicsSupported | | | |
| mediaClassSupport | | | |
| numberOfChannels | | | |
| maxChannelBind | | | |
| miscMediaCallCharacteristics | | | |
| connectionRateList | | | |
| delayToleranceRateList | | | |
| pauseTime | | | |
| currentTime | | | |
| messageSeqNumbers | | | |
| timeStampMode | | | |
| securityMode | | | |
| securityFormat | | | |
| privateDataFormat | | | |
| transAndConfSetup | | | |
| deviceOnDeviceMonitorFilter | | | |
| deviceOnConnectionMonitorFilter | | | |
| callOnDeviceMonitorFilter | | | |

| | | | |
|-------------------------------|--|--|--|
| callOnConnectionMonitorFilter | | | |
| miscMonitorCaps | | | |
| correlatorDataSupported | | | |
| dynamicFeatureSupported | | | |
| callLinkageOptionsSupported | | | |
| acdModels | | | |
| agentLogonModels | | | |
| agentStateModels | | | |
| maxLengthParametersContinued | | | |
| routeingServList | | | |
| logDevServList | | | |
| logDevEvtsList | | | |
| physDevServList | | | |
| physDevEvtsList | | | |
| deviceMaintEvtsList | | | |
| statusReportingServList | | | |
| capExchangeServList | | | |
| cdrServList | | | |
| vendorSpecificServList | | | |
| vendorSpecificEvtsList | | | |

| | | | |
|---------------------------------|--|--|--|
| privateDataVersionList | | | |
| systemStatusTimer | | | |
| simpleThreshold | | | |
| filterThreshold | | | |
| mediaServiceCapsList | | | |
| maxDeviceHistoryEntries | | | |
| maxDestinationDevicesForDeflect | | | |
| security | | | |
| privateData | | | |

A.5.2.5 Get Switching Function Devices

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Switching Function Devices | | | |
| Service Request optional parameters | | | |
| requestedDeviceID | | | |
| requestedDeviceCategory | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.2.6 Switching Function Devices

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Switching Function Devices | | | |
| Service Request optional parameters | | | |
| segmentID | | | |
| security | | | |
| privateData | | | |

A.5.3 System Services

A.5.3.1 Change System Status Filter

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Change System Status Filter | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.3.2 System Register

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| System Register | | | |
| Service Request optional parameters | | | |
| requestedStatusFilter | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| actualStatusFilter | | | |
| security | | | |
| privateData | | | |

A.5.3.3 System Register Abort

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| System Register Abort | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.3.4 System Register Cancel

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| System Register Cancel | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.3.5 Request System Status

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Request System Status | | | |
| Service Request optional parameters | | | |
| sysStatRegisterID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.3.6 System Status

The System Status service shall be supported as part of the Application Association Initialisation as specified in Clause 7 of ECMA-269.

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| System Status | | | |
| Service Request optional parameters | | | |
| sysStatRegisterID | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.3.7 Switching Function Capabilities Changed

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Switching Function Capabilities Changed | | | |
| Service Request optional parameters | | | |
| sysStatRegisterID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.3.8 Switching Function Devices Changed

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|-----------------|
| | Yes | No | |
| Switching Function Devices Changed | | | |
| Service Request optional parameters | | | |
| sysStatRegisterID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.3.9 Get Registrations

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|-----------------|
| | Yes | No | |
| Get Registrations | | | |
| Service Request optional parameters | | | |
| requestedRegTypes | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.3.10 Registration Info

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Registration Info | | | |
| Service Request optional parameters | | | |
| segmentID | | | |
| security | | | |
| privateData | | | |

A.5.4 Monitoring Services

A.5.4.1 Change Monitor Filter

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Change Monitor Filter | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| actualFilterList | | | |
| security | | | |
| privateData | | | |

A.5.4.2 Monitor Start

This service must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Monitor Start | | | |
| Service Request optional parameters | | | |
| requestedMonitorFilter | | | |
| monitorType | | | |
| requestedMonitorMediaClass | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| actualMonitorFilter | | | |
| actualMonitorMediaClass | | | |
| monitorExistingCalls | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.4.3 Monitor Stop

This service must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Monitor Stop | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.4.4 Get Monitors

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Monitors | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.4.5 Monitor Info

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Monitor Info | | | |
| Service Request optional parameters | | | |
| segmentID | | | |
| security | | | |
| privateData | | | |

A.5.5 Snapshot Services

A.5.5.1 Snapshot Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Snapshot Call | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| serviceCrossRefID | | | |
| snapshotData | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| callingDevice | | | |
| calledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| correlatorData | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.5.2 Snapshot Device

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Snapshot Device | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| serviceCrossRefID | | | |
| snapshotData | | | |
| security | | | |
| privateData | | | |

A.5.5.3 Snapshot CallData

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Snapshot CallData | | | |
| Service Request optional parameters | | | |
| segmentID | | | |
| security | | | |
| privateData | | | |

A.5.5.4 Snapshot DeviceData

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Snapshot DeviceData | | | |
| Service Request optional parameters | | | |
| segmentID | | | |
| security | | | |
| privateData | | | |

A.5.6 Call Control Services

A.5.6.1 Accept Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Accept Call | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| userData | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.6.2 Alternate Call

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Alternate Call | | | |
| Service Request optional parameters | | | |
| connectionReservation | | | |
| consultOptions | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.3 Answer Call

This service must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Answer Call | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| userData | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.4 Call Back Call-Related

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Call Back Call-Related | | | |
| Service Request optional parameters | | | |
| callCharacteristics | | | |
| security | | | |

| | | | |
|---|--|--|--|
| subjectOfCall | | | |
| languagePreferences | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| targetDevice | | | |
| security | | | |
| privateData | | | |

A.5.6.5 Call Back Message Call-Related

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Back Message Call-Related | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| targetDevice | | | |
| security | | | |
| privateData | | | |

A.5.6.6 Camp On Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Camp On Call | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.7 Clear Call

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Clear Call | | | |
| Service Request optional parameters | | | |
| userData | | | |
| reason | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.6.8 Clear Connection

This service must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Clear Connection | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| userData | | | |
| reason | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.9 Conference Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Conference Call | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| connections | | | |
| conferenceCallInfo | | | |
| callLinkageDataList | | | |
| security | | | |
| privateData | | | |

A.5.6.10 Consultation Call

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Consultation Call | | | |
| Service Request optional parameters | | | |
| connectionReservation | | | |
| accountCode | | | |

| | | | |
|---|--|--|--|
| authCode | | | |
| correlatorData | | | |
| userData | | | |
| callCharacteristics | | | |
| mediaCallCharacteristics | | | |
| callingConnectionInfo | | | |
| consultOptions | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| mediaCallCharacteristics | | | |
| initiatedCallInfo | | | |
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.11 Deflect Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Deflect Call | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| userData | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| reason | | | |
| callCharacteristics | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.12 Dial Digits

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Dial Digits | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.13 Directed Pickup Call

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Directed Pickup Call | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| userData | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| pickedCall | | | |
| pickedCallInfo | | | |
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.14 Group Pickup Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Group Pickup Call | | | |
| Service Request optional parameters | | | |
| pickGroup | | | |
| correlatorData | | | |
| userData | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| pickedCall | | | |
| pickedCallInfo | | | |
| callLinkageData | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.6.15 Hold Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Hold Call | | | |
| Service Request optional parameters | | | |
| connectionReservation | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.16 Intrude Call

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Intrude Call | | | |
| Service Request optional parameters | | | |
| participationType | | | |

| | | | |
|---|--|--|--|
| userData | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| conferencedCall | | | |
| conferencedCallInfo | | | |
| callLinkageDataList | | | |
| security | | | |
| privateData | | | |

A.5.6.17 Join Call

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Join Call | | | |
| Service Request optional parameters | | | |
| autoOriginate | | | |
| participationType | | | |
| accountCode | | | |
| authCode | | | |
| correlatorData | | | |
| userData | | | |

| | | | |
|---|--|--|--|
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| conferencedCallInfo | | | |
| callLinkageDataList | | | |
| security | | | |
| privateData | | | |

A.5.6.18 Make Call

This service must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Make Call | | | |
| Service Request optional parameters | | | |
| accountCode | | | |
| authCode | | | |
| autoOriginate | | | |
| correlatorData | | | |
| userData | | | |
| callCharacteristics | | | |
| medaCallCharacteristics | | | |

| | | | |
|---|--|--|--|
| callingConnectionInfo | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| reason | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| mediaCallCharacteristics | | | |
| initiatedCallInfo | | | |
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.19 Make Connection

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Make Connection | | | |
| Service Request optional parameters | | | |
| accountCode | | | |
| authCode | | | |
| autoOriginate | | | |

| | | | |
|---|--|--|--|
| correlatorData | | | |
| callCharacteristics | | | |
| medaCallCharacteristics | | | |
| connectionInfo | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| reason | | | |
| maxDevices | | | |
| startTime | | | |
| duration | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| mediaCallCharacteristics | | | |
| initiatedCallInfo | | | |
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.20 Make Predictive Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Make Predictive Call | | | |
| Service Request optional parameters | | | |
| signallingDetection | | | |
| destinationDetection | | | |
| defaultAction | | | |
| accountCode | | | |
| authCode | | | |
| autoOriginate | | | |
| alertTime | | | |
| correlatorData | | | |
| callCharacteristics | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| userData | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| initiatedCallInfo | | | |

| | | | |
|-----------------|--|--|--|
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.21 Park Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Park Call | | | |
| Service Request optional parameters | | | |
| correlatorData | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| parkedTo | | | |
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.22 Reconnect Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Reconnect Call | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.23 Retrieve Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Retrieve Call | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.6.24 Send Message

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Send Message | | | |
| Service Request optional parameters | | | |
| accountCode | | | |
| authCode | | | |
| correlatorData | | | |
| callCharacteristics | | | |
| mediaCallCharacteristics | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| listOfCallLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.6.25 Single Step Conference Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Single Step Conference Call | | | |
| Service Request optional parameters | | | |
| participationType | | | |
| accountCode | | | |
| authCode | | | |
| correlatorData | | | |
| userData | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| conferencedCallInfo | | | |
| callLinkageDataList | | | |
| security | | | |
| privateData | | | |

A.5.6.26 Single Step Transfer Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Single Step Transfer Call | | | |
| Service Request optional parameters | | | |
| accountCode | | | |
| authCode | | | |
| correlatorData | | | |
| userData | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| reason | | | |
| callCharacteristics | | | |
| callLinkageDataList | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| connections | | | |
| transferredCallInfo | | | |
| security | | | |
| privateData | | | |

A.5.6.27 Transfer Call

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Transfer Call | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| connections | | | |
| transferredCallInfo | | | |
| callLinkageDataList | | | |
| security | | | |
| privateData | | | |

A.5.7 Call Control Events

A.5.7.1 Bridged

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Bridged | | | |
| localConnectionInfo | | | |

| | | | |
|--------------------------|--|--|--|
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| bridgedConnectionInfo | | | |
| callLinkageData | | | |
| languagePreferences | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.2 Call Cleared

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Cleared | | | |
| correlatorData | | | |
| userData | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| callLinkageData | | | |

| | | | |
|---------------------|--|--|--|
| languagePreferences | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.3 Conferenced

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Conferenced | | | |
| secondaryOldCall | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.4 Connection Cleared

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Connection Cleared | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| chargingInfo | | | |
| servicesPermitted | | | |
| mediaCallCharateristics | | | |
| callCharacteristics | | | |
| droppedConnectionInfo | | | |
| callLinkageData | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.5 Delivered

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Delivered | | | |
| originatingNIDConnection | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| connectionInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |

| | | | |
|------------------|--|--|--|
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.6 Digits Dialed

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Digits Dialed | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| servicesPermitted | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| diallingConnectionInfo | | | |
| callCharacteristics | | | |
| languagePreferences | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.7 Diverted

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Diverted | | | |
| callingDevice | | | |
| calledDevice | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| connectionInfo | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |

| | | | |
|------------------|--|--|--|
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.8 Established

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Established | | | |
| originatingNIDConnection | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |

| | | | |
|-------------------------|--|--|--|
| establishConnectionInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.9 Failed

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Failed | | | |
| originatingNIDConnection | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |

| | | | |
|--------------------------|--|--|--|
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| failedConnectionInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.10 Held

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Held | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |

| | | | |
|---------------------|--|--|--|
| callCharacteristics | | | |
| heldConnectionInfo | | | |
| callLinkageData | | | |
| languagePreferences | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.11 Network Capabilities Changed

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Network Capabilities Changed | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| networkCapability | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| outboundConnectionInfo | | | |
| languagePreferences | | | |

| | | | |
|------------------|--|--|--|
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.12 Network Reached

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Network Reached | | | |
| originatingNIDConnection | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| networkCapability | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| outboundConnectionInfo | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |

| | | | |
|---------------------|--|--|--|
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.13 Offered

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Offered | | | |
| originatingNIDConnection | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |

| | | | |
|-----------------------|--|--|--|
| offeredConnectionInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.14 Originated

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Originated | | | |
| originatingDevice | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| servicesPermitted | | | |
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |

| | | | |
|--------------------------|--|--|--|
| associatedCalledDevice | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| originatedConnectionInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.15 Queued

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Queued | | | |
| numberQueued | | | |
| callsInFront | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| servicesPermitted | | | |

| | | | |
|--------------------------|--|--|--|
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| queuedConnectionInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.16 Retrieved

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Retrieved | | | |
| localConnectionInfo | | | |
| correlatorData | | | |

| | | | |
|--------------------------|--|--|--|
| servicePermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| retrievedConnectionInfo | | | |
| callLinkageData | | | |
| languagePreferences | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.17 Service Initiated

This event must be supported if the Basic Telephony profile is supported (A.5.1).

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Service Initiated | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| servicesPermitted | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| initiatedConnectionInfo | | | |

| | | | |
|-------------------------|--|--|--|
| networkCallingDevice | | | |
| networkCalledDevice | | | |
| associatedCallingDevice | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| calledDevice | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.7.18 Transferred

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Transferred | | | |
| secondaryOldCall | | | |
| localConnectionInfo | | | |
| correlatorData | | | |
| userData | | | |
| chargingInfo | | | |
| servicesPermitted | | | |

| | | | |
|--------------------------|--|--|--|
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |

A.5.8 Call Associated Feature Services

A.5.8.1 Associate Data

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Associate Data | | | |
| Service Request optional parameters | | | |
| accountCode | | | |
| authCode | | | |
| correlatorData | | | |
| callQualifyingData | | | |
| callCharacteristics | | | |
| subjectOfCall | | | |
| languagePreferences | | | |

| | | | |
|---|--|--|--|
| deviceInfo | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.8.2 Cancel Telephony Tones

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Cancel Telephony Tones | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.8.3 Change Connection Information

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Change Connection Information | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.8.4 Generate Digits

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Generate Digits | | | |
| Service Request optional parameters | | | |
| digitMode | | | |
| toneDuration | | | |
| pulseRate | | | |
| pauseDuration | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.8.5 Generate Telephony Tones

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Generate Telephony Tones | | | |
| Service Request optional parameters | | | |
| toneDuration | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.8.6 Send User Information

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Send User Information | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.9 Call Associated Feature Events

A.5.9.1 Call Information

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Information | | | |
| callingDevice | | | |
| accountInfo | | | |
| authorisationCode | | | |
| correlatorData | | | |
| servicesPermitted | | | |

| | | | |
|---------------------|--|--|--|
| userData | | | |
| callQualifyingData | | | |
| connectionInfo | | | |
| callCharacteristics | | | |
| subjectOfCall | | | |
| languagePreferences | | | |
| deviceInfo | | | |
| security | | | |
| privateData | | | |

A.5.9.2 Charging

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Charging | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.9.3 Digits Generated

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Digits Generated | | | |
| digitDurationList | | | |
| pauseDurationList | | | |
| connectionInfo | | | |
| security | | | |
| privateData | | | |

A.5.9.4 Telephony Tones Generated

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Telephony Tones Generated | | | |
| toneGenerated | | | |
| toneFrequency | | | |
| toneDuration | | | |
| pauseDuration | | | |
| connectionInfo | | | |
| security | | | |
| privateData | | | |

A.5.9.5 Service Completion Failure

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Service Completion Failure | | | |
| secondaryCall | | | |
| otherDevicesPrimaryCallList | | | |
| otherDevicesSecondaryCallList | | | |
| mediaCallCharacteristics | | | |
| security | | | |
| privateData | | | |

A.5.10 Media Attachment Services

A.5.10.1 Attach Media Service

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Attach Media Service | | | |
| Service Request optional parameters | | | |
| mediaServiceVersion | | | |
| mediaServiceInstanceID | | | |
| requestedConnectionState | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| mediaConnection | | | |
| mediaDevice | | | |
| mediaServiceInstanceID | | | |
| mediaConnectionInfo | | | |
| callLinkageData | | | |
| security | | | |
| privateData | | | |

A.5.10.2 Detach Media Service

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Detach Media Service | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.11 Media Attachment Events

A.5.11.1 Media Attached

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Media Attached | | | |
| mediaServiceVersion | | | |
| mediaServiceInstanceID | | | |
| mediaStreamID | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| localConnectionInfo | | | |
| mediaConnectionInfo | | | |
| security | | | |
| privateData | | | |

A.5.11.2 Media Detached

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Media Detached | | | |
| mediaServiceVersion | | | |
| mediaServiceInstanceID | | | |

| | | | |
|--------------------------|--|--|--|
| mediaStreamID | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| localConnectionInfo | | | |
| mediaConnectionInfo | | | |
| security | | | |
| privateData | | | |

A.5.12 Routing Services

A.5.12.1 Route Register

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Route Register | | | |
| Service Request optional parameters | | | |
| routeingDevice | | | |
| requestedRouteingMediaClass | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| actualRouteingMediaClass | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.12.2 Route Register Abort

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Route Register Abort | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.12.3 Route Register Cancel

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Route Register Cancel | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.12.4 Re-Route

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Re-Route | | | |
| Service Request optional parameters | | | |
| routeRegisterReqID | | | |
| replyTimeout | | | |
| correlatorData | | | |
| security | | | |
| privateData | | | |

A.5.12.5 Route End

This service must be supported if the Routing Profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Route End | | | |
| Service Request optional parameters | | | |
| routeRegisterReqID | | | |
| errorValue | | | |
| correlatorData | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.12.6 Route Reject

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Route Reject | | | |
| Service Request optional parameters | | | |
| routeRegisterReqID | | | |
| rejectCause | | | |
| correlatorData | | | |
| security | | | |
| privateData | | | |

A.5.12.7 Route Request

This service must be supported if the Routing Profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Route Request | | | |
| Service Request optional parameters | | | |
| routeRegisterReqID | | | |
| callingDevice | | | |

| | | | |
|--------------------------|--|--|--|
| routeingDevice | | | |
| routedCall | | | |
| routeSelAlgorithm | | | |
| associatedCallingDevice | | | |
| associatedCalledDevice | | | |
| priority | | | |
| replyTimeout | | | |
| correlatorData | | | |
| mediaCallCharacteristics | | | |
| callCharacteristics | | | |
| routedCallInfo | | | |
| subjectOfCall | | | |
| messageInfo | | | |
| languagePreferences | | | |
| deviceHistory | | | |
| security | | | |
| privateData | | | |

A.5.12.8 Route Select

This service must be supported if the Routing Profile is supported (A.5.1).

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Route Select | | | |
| Service Request optional parameters | | | |
| routeRegisterReqID | | | |
| alternateRoutes | | | |
| remainRetries | | | |
| routeUsedReq | | | |
| correlatorData | | | |
| security | | | |
| privateData | | | |

A.5.12.9 Route Used

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Route Used | | | |
| Service Request optional parameters | | | |
| routeRegisterReqID | | | |
| callingDevice | | | |

| | | | |
|----------------|--|--|--|
| domain | | | |
| correlatorData | | | |
| security | | | |
| privateData | | | |

A.5.13 Physical Device Services

A.5.13.1 Button Press

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Button Press | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.2 Get Auditory Apparatus Information

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Auditory Apparatus Information | | | |
| Service Request optional parameters | | | |
| auditoryApparatus | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.3 Get Button Information

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Button Information | | | |
| Service Request optional parameters | | | |
| button | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.13.4 Get Display

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Display | | | |
| Service Request optional parameters | | | |
| displayID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.5 Get HookSwitch Status

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get HookSwitch Status | | | |
| Service Request optional parameters | | | |
| hookswitch | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.6 Get Lamp Information

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Lamp Information | | | |
| Service Request optional parameters | | | |
| lamp | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.13.7 Get Lamp Mode

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Lamp Mode | | | |
| Service Request optional parameters | | | |
| lamp | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| lamp | | | |
| security | | | |
| privateData | | | |

A.5.13.8 Get Message Waiting Indicator

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Get Message Waiting Indicator | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| deviceForMessage | | | |
| lampsPresent | | | |
| security | | | |
| privateData | | | |

A.5.13.9 Get Microphone Gain

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Get Microphone Gain | | | |
| Service Request optional parameters | | | |
| auditoryApparatus | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.13.10 Get Microphone Mute

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Microphone Mute | | | |
| Service Request optional parameters | | | |
| auditoryApparatus | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.11 Get Ringer Status

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Ringer Status | | | |
| Service Request optional parameters | | | |
| ringer | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.12 Get Speaker Mute

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Speaker Mute | | | |
| Service Request optional parameters | | | |
| auditoryApparatus | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.13.13 Get Speaker Volume

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Speaker Volume | | | |
| Service Request optional parameters | | | |
| auditoryApparatus | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.14 Set Button Information

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Button Information | | | |
| Service Request optional parameters | | | |
| buttonLabel | | | |
| buttonAssociatedNumber | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.15 Set Display

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Set Display | | | |
| Service Request optional parameters | | | |
| displayID | | | |
| physicalBaseRowNumber | | | |
| physicalBaseColumnNumber | | | |

| | | | |
|---|--|--|--|
| offset | | | |
| characterSet | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.16 Set HookSwitch Status

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set HookSwitch Status | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.17 Set Lamp Mode

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Lamp Mode | | | |
| Service Request optional parameters | | | |
| lampBrightness | | | |
| lampColor | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.18 Set Message Waiting Indicator

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Set Message Waiting Indicator | | | |
| Service Request optional parameters | | | |
| deviceForMessage | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.13.19 Set Microphone Gain

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Microphone Gain | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.20 Set Microphone Mute

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Microphone Mute | | | |
| Service Request optional parameters | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.21 Set Ringer Status

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Set Ringer Status | | | |
| Service Request optional parameters | | | |
| ringMode | | | |
| ringPattern | | | |
| ringVolume | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.22 Set Speaker Mute

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Speaker Mute | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.13.23 Set Speaker Volume

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Speaker Volume | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.14 Physical Device Events

A.5.14.1 Button Information

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Button Information | | | |
| buttonLabel | | | |
| buttonAssociatedNumber | | | |
| buttonPressIndicator | | | |
| security | | | |
| privateData | | | |

A.5.14.2 Button Press

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Button Press | | | |
| buttonLabel | | | |
| buttonAssociatedNumber | | | |
| security | | | |
| privateData | | | |

A.5.14.3 Display Updated

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Display Updated | | | |
| displayID | | | |
| physicalRows | | | |
| physicalColumns | | | |
| physicalBaseRowNumber | | | |
| physicalBaseColumnNumber | | | |
| characterSet | | | |
| security | | | |
| privateData | | | |

A.5.14.4 Hookswitch

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Hookswitch | | | |
| security | | | |
| privateData | | | |

A.5.14.5 Lamp Mode

| Description: Event, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Lamp Mode | | | |
| lampLabel | | | |
| lampBrightness | | | |
| lampColor | | | |
| security | | | |
| privateData | | | |

A.5.14.6 Message Waiting

| Description: Event, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Message Waiting | | | |
| deviceForMessage | | | |
| security | | | |
| privateData | | | |

A.5.14.7 Microphone Gain

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Microphone Gain | | | |
| security | | | |
| privateData | | | |

A.5.14.8 Microphone Mute

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Microphone Mute | | | |
| security | | | |
| privateData | | | |

A.5.14.9 Ringer Status

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Ringer Status | | | |
| ringMode | | | |
| ringCount | | | |
| ringDuration | | | |

| | | | |
|-------------|--|--|--|
| ringPattern | | | |
| ringVolume | | | |
| security | | | |
| privateData | | | |

A.5.14.10 Speaker Mute

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Speaker Mute | | | |
| security | | | |
| privateData | | | |

A.5.14.11 Speaker Volume

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Speaker Volume | | | |
| timeStamp | | | |
| security | | | |
| privateData | | | |

A.5.15 Logical Device Services

A.5.15.1 Call Back Non-Call-Related

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Back Non-Call-Related | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.2 Call Back Message Non-Call-Related

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Back Message Non-Call-Related | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.15.3 Cancel Call Back

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Cancel Call Back | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.4 Cancel Call Back Message

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Cancel Call Back Message | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.15.5 Get Agent State

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Agent State | | | |
| Service Request optional parameters | | | |
| acdGroup | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.6 Get Auto Answer

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Get Auto Answer | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| numberOfRings | | | |
| security | | | |
| privateData | | | |

A.5.15.7 Get Auto Work Mode

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Get Auto Work Mode | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| autoWorkInterval | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.15.8 Get CallBack

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get CallBack | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.9 Get Caller ID Status

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Caller ID Status | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.15.10 Get Do Not Disturb

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Do Not Disturb | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| callOrigination | | | |
| callingDeviceList | | | |
| security | | | |
| privateData | | | |

A.5.15.11 Get Forwarding

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Forwarding | | | |

| Service Request optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.12 Get Last Number Dialled

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Last Number Dialled | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.13 Get Presence State

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| | | | |

| | | | |
|---|--|--|--|
| Get Presence State | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| fromTime | | | |
| untilTime | | | |
| place | | | |
| mood | | | |
| namedPresenceState | | | |
| security | | | |
| privateData | | | |

A.5.15.14 Get Routing Mode

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Routing Mode | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.15 Set Agent State

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Agent State | | | |
| Service Request optional parameters | | | |
| agentID | | | |
| password | | | |
| group | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| pendingAgentState | | | |
| security | | | |
| privateData | | | |

A.5.15.16 Set Auto Answer

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|-----------|-----------------|
| | Yes | No | |
| Set Auto Answer | | | |
| Service Request optional parameters | | | |
| numberOfRings | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.17 Set Auto Work Mode

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|-----------|-----------------|
| | Yes | No | |
| Set Auto Work Mode | | | |
| Service Request optional parameters | | | |
| autoWorkInterval | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.15.18 Set Caller ID Status

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Caller ID Status | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.19 Set Do Not Disturb

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Do Not Disturb | | | |
| Service Request optional parameters | | | |
| callOrigination | | | |

| | | | |
|---|--|--|--|
| callingDeviceList | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.20 Set Forwarding

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Forwarding | | | |
| Service Request optional parameters | | | |
| forwardingType | | | |
| forwardDN | | | |
| ringCount | | | |
| ringDuration | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.21 Set Presence State

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Presence State | | | |
| Service Request optional parameters | | | |
| fromTime | | | |
| untilTime | | | |
| place | | | |
| mood | | | |
| namedPresenceState | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.15.22 Set Routing Mode

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Routing Mode | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.16 Logical Device Events

A.5.16.1 Agent Busy

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Agent Busy | | | |
| agentID | | | |
| acdGroup | | | |
| pendingAgentState | | | |
| cause | | | |
| security | | | |

| | | | | |
|-------------|--|--|--|--|
| privateData | | | | |
|-------------|--|--|--|--|

A.5.16.2 Agent Logged Off

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Agent Logged Off | | | |
| agentID | | | |
| acdGroup | | | |
| agentPassword | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.16.3 Agent Logged On

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Agent Logged On | | | |
| agentID | | | |
| acdGroup | | | |
| agentPassword | | | |
| cause | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.16.4 Agent Not Ready

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Agent Not Ready | | | |
| agentID | | | |
| acdGroup | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.16.5 Agent Ready

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Agent Ready | | | |
| agentID | | | |
| acdGroup | | | |
| cause | | | |
| security | | | |

| | | | | |
|-------------|--|--|--|--|
| privateData | | | | |
|-------------|--|--|--|--|

A.5.16.6 Agent Working After Call

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Agent Working After Call | | | |
| agentID | | | |
| acdGroup | | | |
| pendingAgentState | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.16.7 Auto Answer

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Auto Answer | | | |
| numberOfRings | | | |
| security | | | |
| privateData | | | |

A.5.16.8 Auto Work Mode

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Auto Work Mode | | | |
| security | | | |
| privateData | | | |

A.5.16.9 Call Back

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Back | | | |
| security | | | |
| privateData | | | |

A.5.16.10 Call Back Message

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Back Message | | | |
| security | | | |
| privateData | | | |

A.5.16.11 Caller ID Status

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Caller ID Status | | | |
| security | | | |
| privateData | | | |

A.5.16.12 Do Not Disturb

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Do Not Disturb | | | |
| callOrigination | | | |
| callingDeviceList | | | |
| security | | | |
| privateData | | | |

A.5.16.13 Forwarding

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Forwarding | | | |
| forwardingType | | | |

| | | | |
|----------------|--|--|--|
| forwardTo | | | |
| forwardDefault | | | |
| ringCount | | | |
| ringDuration | | | |
| security | | | |
| privateData | | | |

A.5.16.14 Presence State

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Presence State | | | |
| fromTime | | | |
| untilTime | | | |
| place | | | |
| mood | | | |
| namedPresenceState | | | |
| security | | | |
| privateData | | | |

A.5.16.15 Routeing Mode

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Routeing Mode | | | |
| security | | | |
| privateData | | | |

A.5.17 Device Maintenance Events

A.5.17.1 Back In Service

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Back In Service | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.17.2 Device Capabilities Changed

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Device Capabilities Changed | | | |
| cause | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.17.3 Out of Service

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Out of Service | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.17.4 Partially In Service

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Partially In Service | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.18 I/O Services

A.5.18.1 I/O Register

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| I/O Register | | | |
| Service Request optional parameters | | | |
| ioDevice | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.2 I/O Register Abort

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| I/O Register Abort | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.3 I/O Register Cancel

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| I/O Register Cancel | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.4 Data Path Resumed

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Data Path Resumed | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | | |
|-------------|--|--|--|--|
| privateData | | | | |
|-------------|--|--|--|--|

A.5.18.5 Data Path Suspended

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Data Path Suspended | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.6 Fast Data

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Fast Data | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| dataPathType | | | |

| | | | |
|---|--|--|--|
| displayAttributes | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.7 Resume Data Path

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Resume Data Path | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.8 Send Broadcast Data

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Send Broadcast Data | | | |
| Service Request optional parameters | | | |
| dataPathType | | | |
| displayAttributes | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.9 Send Data

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Send Data | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| displayAttributes | | | |
| ioCause | | | |

| | | | |
|---|--|--|--|
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.10 Send Multicast Data

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Send Multicast Data | | | |
| Service Request optional parameters | | | |
| ioData | | | |
| displayAttributes | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.11 Start Data Path

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Start Data Path | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| dataPathDirection | | | |
| dataPathType | | | |
| displayID | | | |
| numberOfCharsToCollect | | | |
| terminationCharacter | | | |
| timeout | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| numberOfCharsToCollect | | | |
| terminationCharacter | | | |
| timeout | | | |
| security | | | |
| privateData | | | |

A.5.18.12 Stop Data Path

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Stop Data Path | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.18.13 Suspend Data Path

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Suspend Data Path | | | |
| Service Request optional parameters | | | |
| ioRegisterReqID | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.19 Data Collection Services

A.5.19.1 Data Collected

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Data Collected | | | |
| Service Request optional parameters | | | |
| digitsData | | | |
| telTonesData | | | |
| connectionInfo | | | |
| dcollCause | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.19.2 Data Collection Resumed

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Data Collection Resumed | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.19.3 Data Collection Suspended

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Data Collection Suspended | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.19.4 Resume Data Collection

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Resume Data Collection | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.19.5 Start Data Collection

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Start Data Collection | | | |
| Service Request optional parameters | | | |
| dataCollType | | | |
| digitsReportingCriteria | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.19.6 Stop Data Collection

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Stop Data Collection | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.19.7 Suspend Data Collection

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Suspend Data Collection | | | |
| Service Request optional parameters | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20 Voice Services

A.5.20.1 Activate

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Activate | | | |
| Service Request optional parameters | | | |
| resource | | | |
| grammarName | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.2 Clear

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|-----------|-----------------|
| | Yes | No | |
| Clear Message | | | |
| Service Request optional parameters | | | |
| resource | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.3 Concatenate Message

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|-----------|-----------------|
| | Yes | No | |
| Concatenate Message | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | | |
|-------------|--|--|--|--|
| privateData | | | | |
|-------------|--|--|--|--|

A.5.20.4 Deactivate

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Deactivate | | | |
| Service Request optional parameters | | | |
| resource | | | |
| grammarName | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.5 Delete Message

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Delete Message | | | |
| Service Request optional parameters | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.6 Play Message

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Play Message | | | |
| Service Request optional parameters | | | |
| duration | | | |
| termination | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.7 Query Voice Attribute

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Query Voice Attribute | | | |
| Service Request optional parameters | | | |
| messageToQuery | | | |
| resource | | | |
| connection | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.8 Queue

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Queue Service | | | |
| Service Request optional parameters | | | |
| message | | | |
| resource | | | |

| | | | |
|---|--|--|--|
| text | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.9 Record Message

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Record Message | | | |
| Service Request optional parameters | | | |
| resource | | | |
| samplingRate | | | |
| encodingAlgorithm | | | |
| maxDuration | | | |
| termination | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | | |
|-------------|--|--|--|--|
| privateData | | | | |
|-------------|--|--|--|--|

A.5.20.10 Reposition

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Reposition | | | |
| Service Request optional parameters | | | |
| messageToReposition | | | |
| resource | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.11 Resume

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Resume | | | |
| Service Request optional parameters | | | |
| messageToResume | | | |

| | | | |
|---|--|--|--|
| resource | | | |
| duration | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.12Review

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Review | | | |
| Service Request optional parameters | | | |
| messageToReview | | | |
| resource | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.13 Set Voice Attribute

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Set Voice Attribute | | | |
| Service Request optional parameters | | | |
| message | | | |
| resource | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.14 Start

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Start | | | |
| Service Request optional parameters | | | |
| resource | | | |
| text | | | |
| security | | | |

| | | | |
|---|--|--|--|
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.15 Stop

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Stop | | | |
| Service Request optional parameters | | | |
| messageToBeStopped | | | |
| resource | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.16 Suspend

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Suspend | | | |
| Service Request optional parameters | | | |
| message | | | |
| resource | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.20.17 Synthesize Message

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Synthesize Message | | | |
| Service Request optional parameters | | | |
| control | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.21 Voice Events

A.5.21.1 Bookmark Reached

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Bookmark Reached | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.2 Completed

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Completed | | | |
| resource | | | |
| cause | | | |

| | | | |
|-------------------|--|--|--|
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.3 DTMF Detected

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| DTMF Detected | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.4 Emptied

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Emptied | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.21.5 Interruption Detected

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Interruption Detected | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.6 Not Recognized

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Not Recognized | | | |
| resource | | | |
| result | | | |
| cause | | | |
| servicesPermitted | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.21.7 Play

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Play | | | |
| message | | | |
| resource | | | |
| length | | | |
| currentPosition | | | |
| speed | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.8 Recognized

| Description: Event, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Recognized | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.9 Record

| Description: Event, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Record | | | |
| message | | | |
| resource | | | |
| length | | | |
| currentPosition | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.21.10 Review

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Review | | | |
| message | | | |
| resource | | | |
| length | | | |
| currentPosition | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.11 Silence Timeout Expired

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Silence Timeout Expired | | | |
| resource | | | |
| cause | | | |

| | | | |
|-------------------|--|--|--|
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.12Speech Detected

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Speech Detected | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.13Started

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Started | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |

| | | | |
|-------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.21.14 Stop

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Stop | | | |
| message | | | |
| resource | | | |
| length | | | |
| currentPosition | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.15 Suspend Play

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Suspend Play | | | |
| message | | | |

| | | | |
|-------------------|--|--|--|
| resource | | | |
| length | | | |
| currentPosition | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.16 Suspend Record

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Suspend Record | | | |
| message | | | |
| resource | | | |
| length | | | |
| currentPosition | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.21.17 Voice Attribute Changed

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Voice Attribute Changed | | | |
| message | | | |
| resource | | | |
| playVolume | | | |
| recordingGain | | | |
| speed | | | |
| currentPosition | | | |
| grammars | | | |
| language | | | |
| mode | | | |
| retainAudio | | | |
| silenceTimeout | | | |
| maxTimeout | | | |
| babbleTimeout | | | |
| endSilence | | | |
| rejectionThreshold | | | |
| autoInterruptable | | | |
| innerXML | | | |

| | | | |
|-------------------|--|--|--|
| interdigitTimeout | | | |
| preflush | | | |
| cause | | | |
| security | | | |
| privateData | | | |

A.5.21.18 Voice Error Occurred

| Description: Event, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Voice Error Occurred | | | |
| resource | | | |
| cause | | | |
| servicesPermitted | | | |
| security | | | |
| privateData | | | |

A.5.22 Call Detail Record (CDR) Services

A.5.22.1 Call Detail Records Notification

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Call Detail Records Notification | | | |
| Service Request optional parameters | | | |
| cdrReason | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.22.2 Call Detail Records Report

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Call Detail Records Report | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.22.3 Send Stored Call Detail Records

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Send Stored Call Detail Records | | | |
| Service Request optional parameters | | | |
| timePeriod | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.22.4 Start Call Detail Records Transmission

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Start Call Detail Records Transmission | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.22.5 Stop Call Detail Records Transmission

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Stop Call Detail Records Transmission | | | |
| Service Request optional parameters | | | |
| cdrTermReason | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.23 Location Services

A.5.23.1 Get Location Information

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Location Information | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| locationInfo | | | |
| security | | | |
| privateData | | | |

A.5.23.2 Set Location Information

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Set Location Information | | | |
| Service Request optional parameters | | | |
| locationInfo | | | |

| | | | |
|---|--|--|--|
| replaceMode | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| locationInfo | | | |
| security | | | |
| privateData | | | |

A.5.23.3 Location Tracking Session Resumed

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Location Tracking Session Resumed | | | |
| Service Request optional parameters | | | |
| locReason | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.23.4 Location Tracking Session Suspended

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|-----------------|
| | Yes | No | |
| Location Tracking Session Suspended | | | |
| Service Request optional parameters | | | |
| locReason | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| locationInfo | | | |
| security | | | |
| privateData | | | |

A.5.23.5 Resume Location Tracking Session

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|-----------------|
| | Yes | No | |
| Resume Location Tracking Session | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.23.6 Location Information Report

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Location Information Report | | | |
| Service Request optional parameters | | | |
| locationInfoList | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.23.7 Start Location Tracking Session

| Description: Service, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Start Location Tracking Session | | | |
| Service Request optional parameters | | | |
| collectionType | | | |
| collectionInterval | | | |
| maxCollections | | | |
| collectionFilter | | | |
| reportingType | | | |
| reportingInterval | | | |
| reportingCount | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.23.8 Stop Location Tracking Session

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Stop Location Tracking Session | | | |
| Service Request optional parameters | | | |
| reason | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.23.9 Suspend Location Tracking Session

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Suspend Location Tracking Session | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | |
|-------------|--|--|--|
| privateData | | | |
|-------------|--|--|--|

A.5.23.10 Get Location Tracking Capabilities

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Get Location Tracking Capabilities | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.23.11 Get Location Tracking Sessions

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|----------|
| | Yes | No | |
| Get Location Tracking Sessions | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.23.12 Location Session Info

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Location Session Info | | | |
| Service Request optional parameters | | | |
| segmentID | | | |
| security | | | |
| privateData | | | |

A.5.24 Vendor Specific Extension Services

A.5.24.1 Escape Register

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Escape Register | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

| Service Response optional parameters | | | |
|--------------------------------------|--|--|--|
| security | | | |
| privateData | | | |

A.5.24.2 Escape Register Abort

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Escape Register Abort | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.24.3 Escape Register Cancel

| Description: Service, optional parameters | Supported ? | | Comments |
|---|-------------|----|----------|
| | Yes | No | |
| Escape Register Cancel | | | |
| Service Request optional parameters | | | |
| security | | | |
| privateData | | | |
| Service Response optional parameters | | | |
| security | | | |

| | | | | |
|-------------|--|--|--|--|
| privateData | | | | |
|-------------|--|--|--|--|

A.5.24.4 Escape

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|-----------------|
| | Yes | No | |
| Escape | | | |
| Service Request optional parameters | | | |
| escapeRegisterID | | | |
| security | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.24.5 Private Data Version Selection

| Description: Service, optional parameters | Supported ? | | Comments |
|--|-------------|----|-----------------|
| | Yes | No | |
| Private Data Version Selection | | | |
| Service Response optional parameters | | | |
| security | | | |
| privateData | | | |

A.5.25 Vendor Specific Extension Events

A.5.25.1 Private Event

| Description: Event, optional parameters | Supported ? | | Comments |
|--|--------------------|-----------|-----------------|
| | Yes | No | |
| Private Event | | | |
| security | | | |