INTERNATIONAL TELECOMMUNICATION UNION

ITU-T Q.617

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

(03/93)

INTERWORKING OF SIGNALLING SYSTEMS

INTERWORKING OF SIGNALLING SYSTEMS – LOGIC PROCEDURES FOR INCOMING SIGNALLING SYSTEM No. 7 (ISUP)

ITU-T Recommendation Q.617

(Previously “CCITT Recommendation”)

FOREWORD

The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the International Telecommunication Union. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, established the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

ITU-T Recommendation Q.617 was prepared by the ITU-T Study Group XI (1988-1993) and was approved by the WTSC (Helsinki, March 1-12, 1993).

NOTES

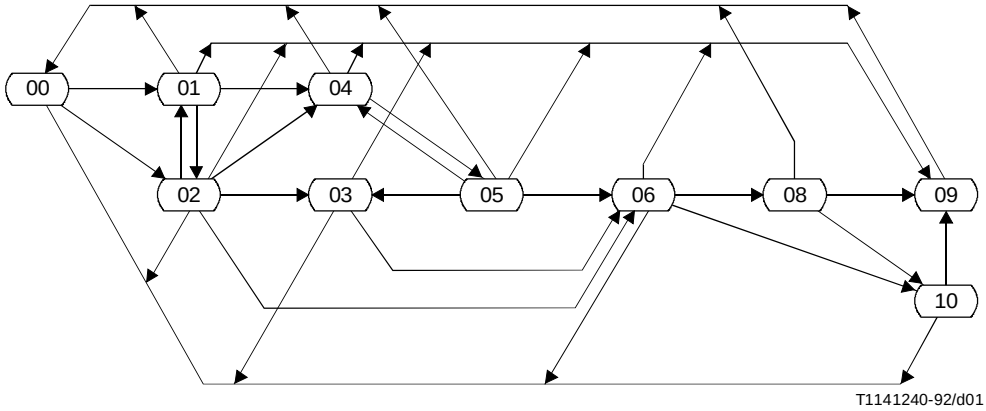
1 As a consequence of a reform process within the International Telecommunication Union (ITU), the CCITT ceased to exist as of 28 February 1993. In its place, the ITU Telecommunication Standardization Sector (ITU-T) was created as of 1 March 1993. Similarly, in this reform process, the CCIR and the IFRB have been replaced by the Radiocommunication Sector.

In order not to delay publication of this Recommendation, no change has been made in the text to references containing the acronyms "CCITT, CCIR or IFRB" or their associated entities such as Plenary Assembly, Secretariat, etc. Future editions of this Recommendation will contain the proper terminology related to the new ITU structure.

2 In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTERWORKING OF SIGNALLING SYSTEMS – LOGIC PROCEDURES FOR INCOMING SIGNALLING SYSTEM No. 7 (ISUP)

(Helsinki, 1993)



State number	*State description*	*Sheet reference*	*Timer running*
00	Idle	1, 13, 16	
01	Wait for further digits	2	t_1, t_2
02	Wait for digit analysis	5	t_1, t_2, t_3
03	Wait for COT	8	t_1, t_2, t_3
04	Wait for further digits; COT received	3	t_2
05	Wait for digit analysis; COT received	4	t_2, t_3
06	Wait for address complete	10	t_2, t_3
08	Address complete; Wait for answer	15	
09	Wait for RLC	13	t_7
10	Answered	16	t_6, t_9

FIGURE 1/Q.617

State overview diagram for incoming Signalling System No. 7 (ISUP)

Supervisory timers for incoming Signalling System No. 7 (ISUP)

t_1 = 10 - 15 s	Waiting for continuity
t_2 = 15 - 20 s	Waiting for address signal
t_3 = 20 - 30 s	Waiting for Address Complete signal
t_5 = 1 minute	Stop repeat sending of Release on t_7 timeout
t_7 = 4 - 15 s	Waiting for Release Complete release

Information contents of FITEs and BITEs

For the information contents of the following FITEs and BITEs see the contents of the corresponding messages in Recommendation Q.763:

FITE A	Initial Address Message (IAM)
BITE 47	Call Progress message (CPG)
BITE 48	Connect message (CON)
BITE X	Address Complete Message (ACM)
BITE Y	Answer Message (ANM)

Procedures not shown

Procedures related to the following messages are not shown in the logic procedures because of no relevancy for interworking or no usage defined yet:

BLO	CGU	FRJ	UBA
BLA	CGUA	GRA	UBL
CCR	CQM	GRS	UCIC
CFN	CQR	LPA	USR
CGB	FAA	OLM	
CGBA	FAR	RSC	

Indicated fault procedures

P_1 (State 01, 02, 03)	Procedure for continuity recheck incoming
P_2 (State 02, 05)	Procedure for test-call

FIGURE 2/Q.617

Notes to incoming Signalling System No. 7 (ISUP)

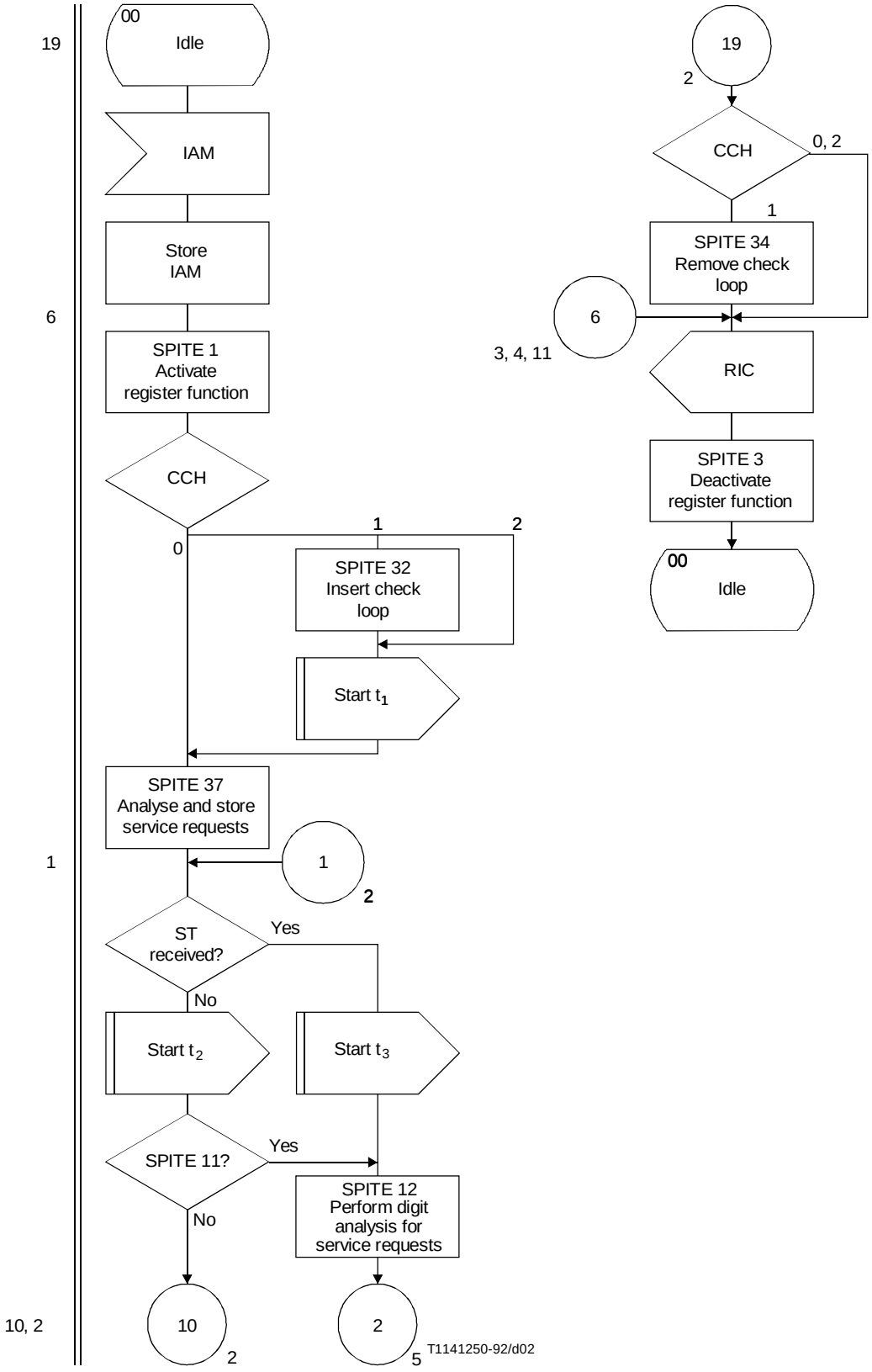


FIGURE 3/Q.617 (sheet 1 of 16)

Incoming Signalling System No. 7 (ISUP)

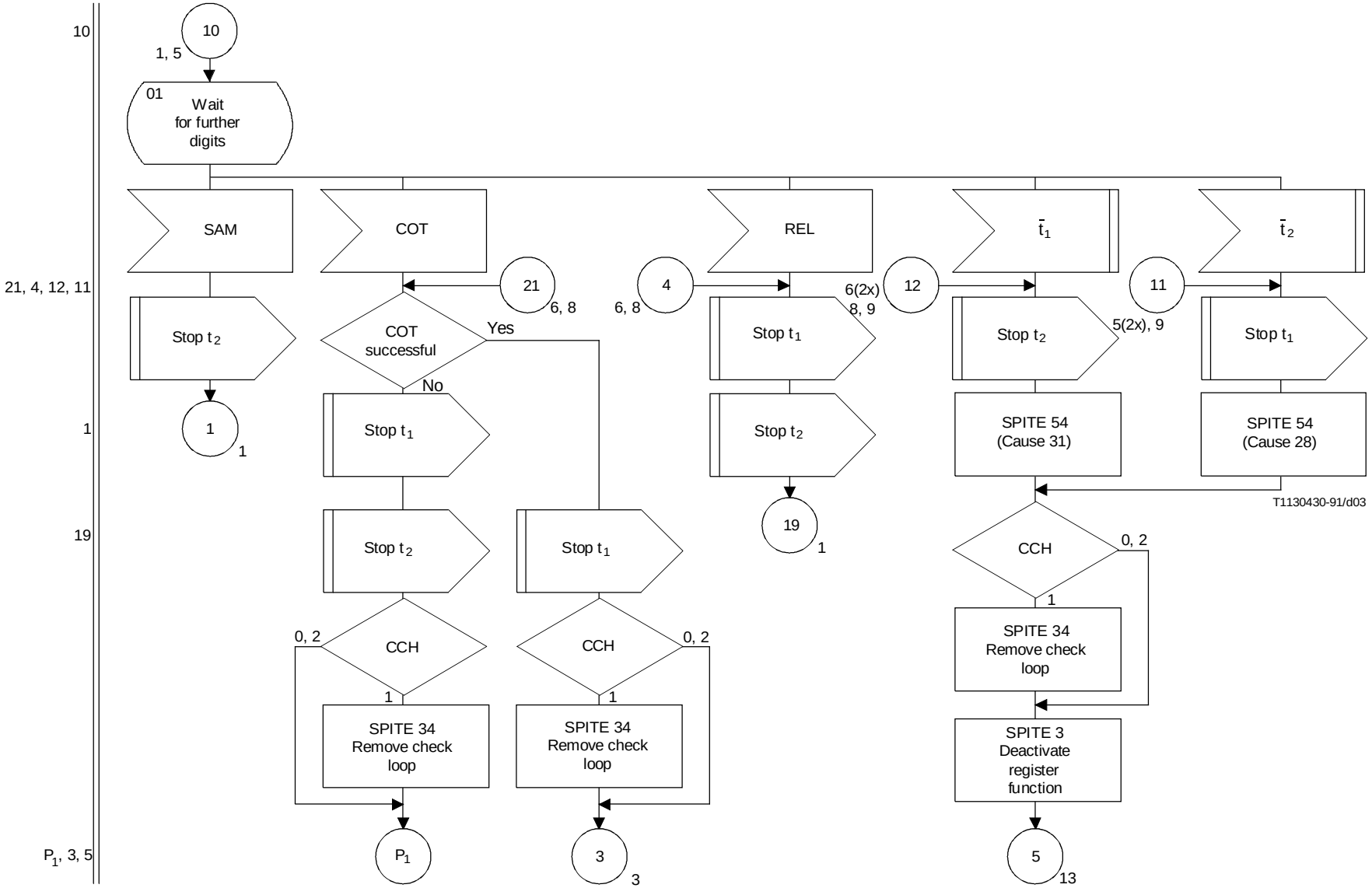


FIGURE 3/Q.617 (sheet 2 of 16)

Incoming Signalling System No. 7 (ISUP)

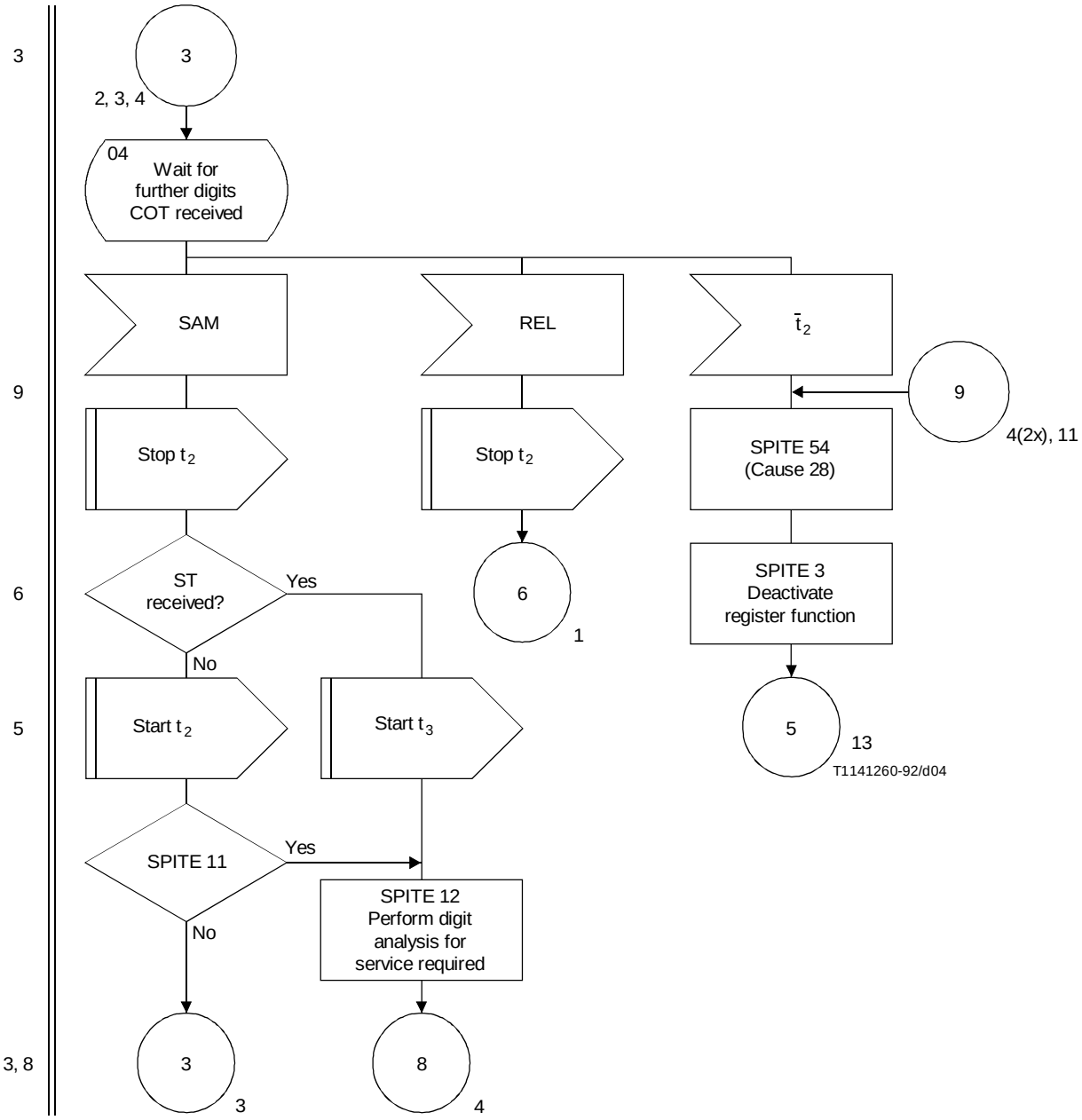


FIGURE 3/Q.617 (sheet 3 of 16)

Incoming Signalling System No. 7 (ISUP)

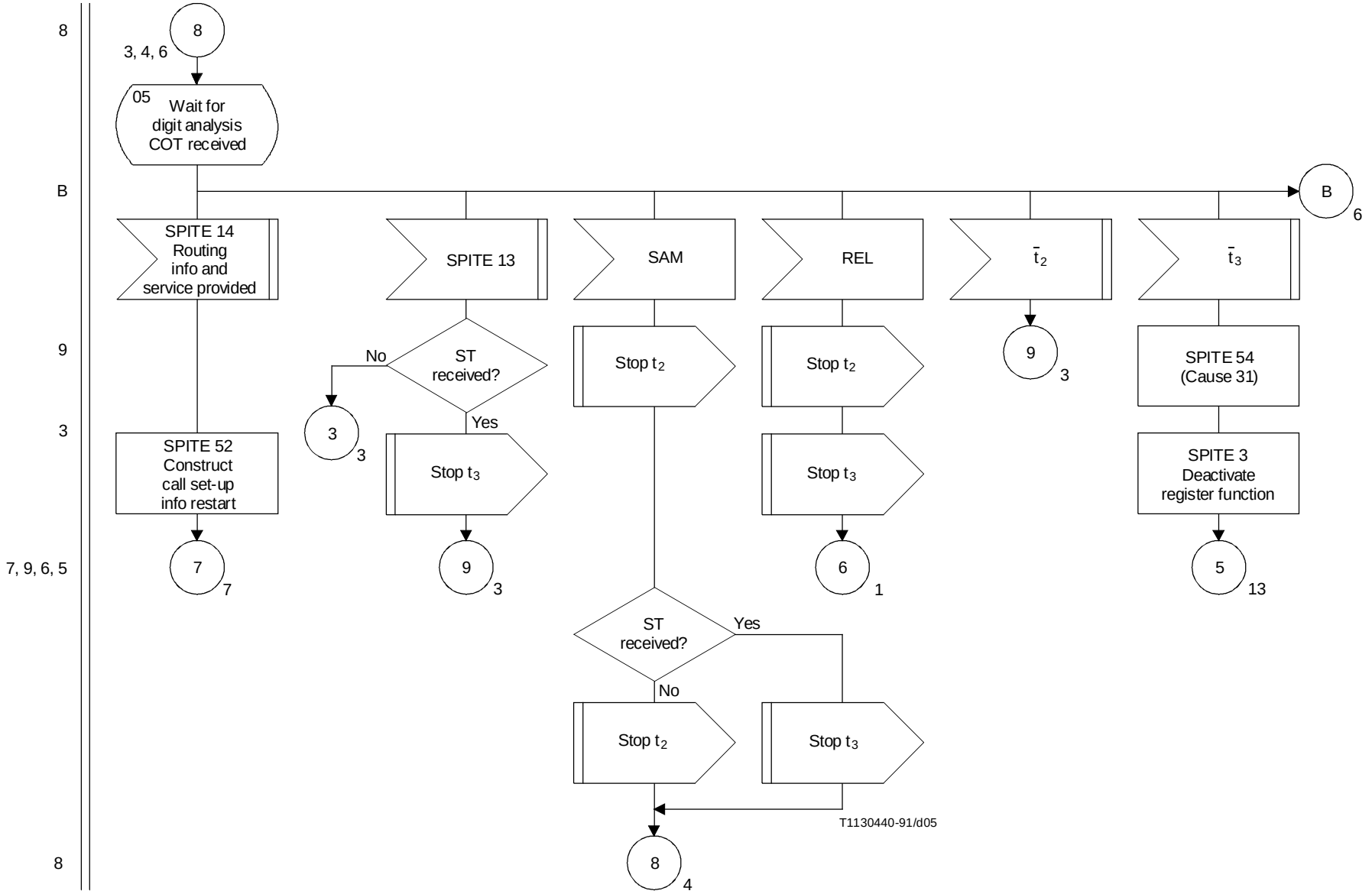


FIGURE 3/Q.617 (sheet 4 of 16)

Incoming Signalling System No. 7 (ISUP)

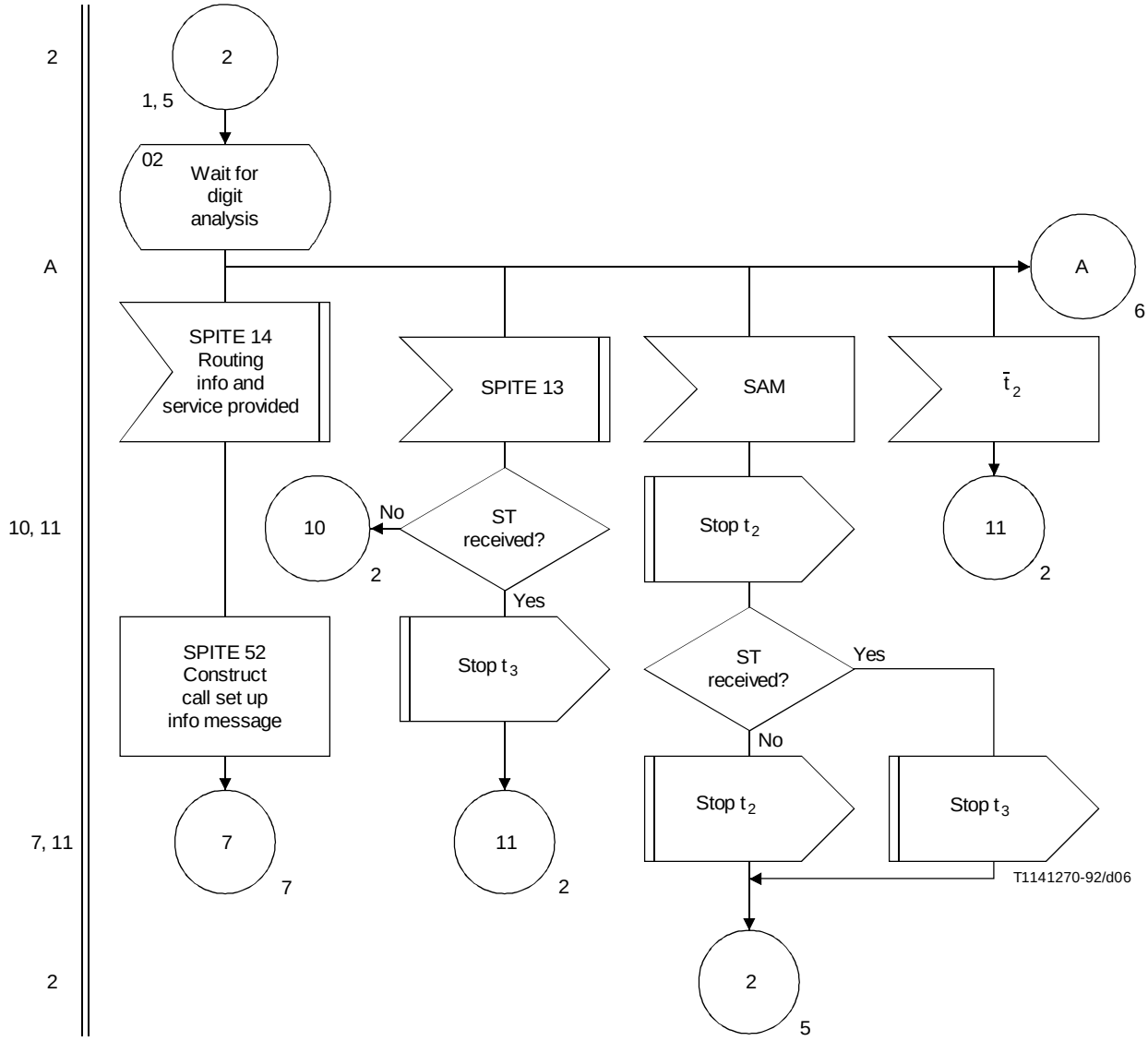


FIGURE 3/Q.617 (sheet 5 of 16)

Incoming Signalling System No. 7 (ISUP)

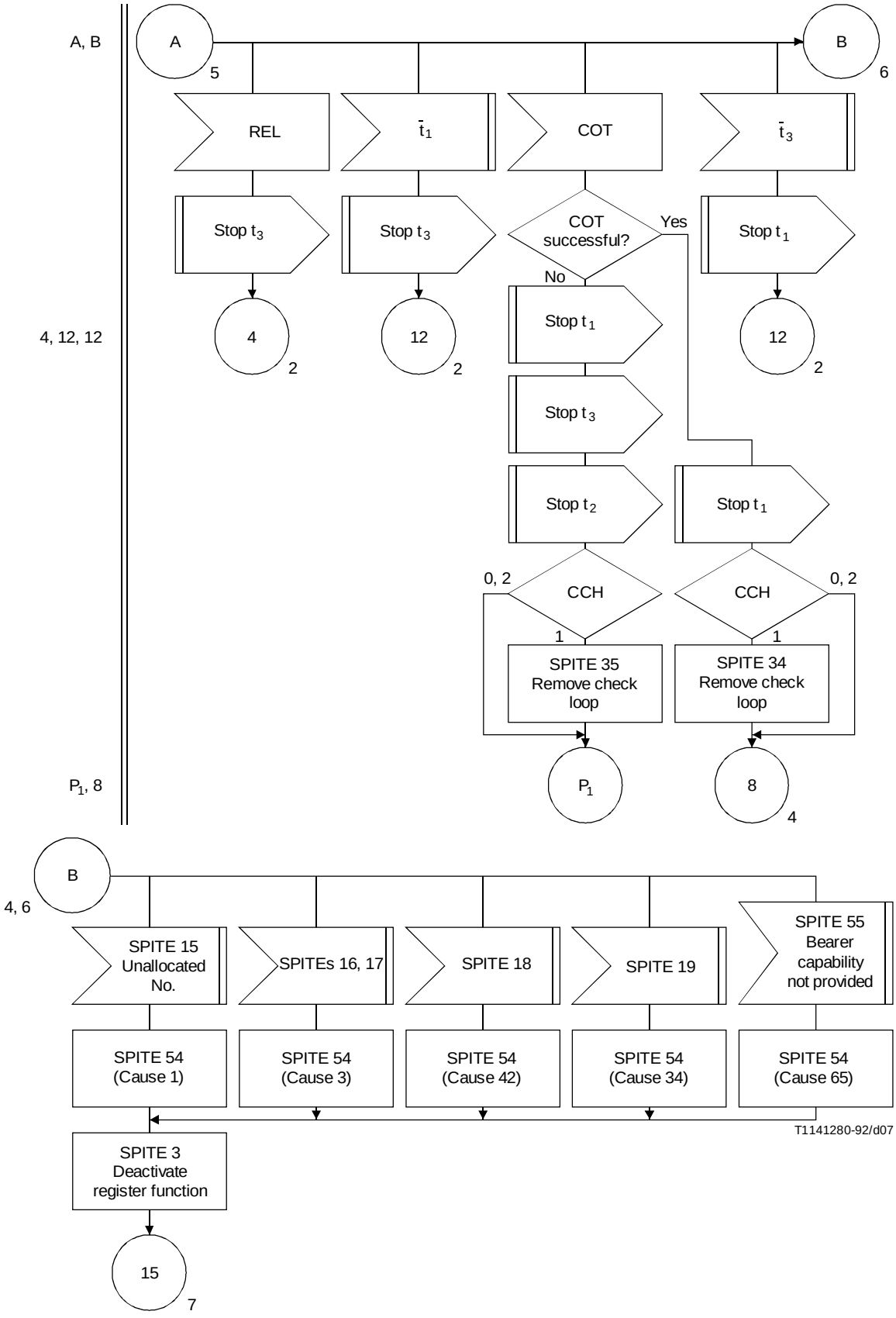


FIGURE 3/Q.617 (sheet 6 of 16)

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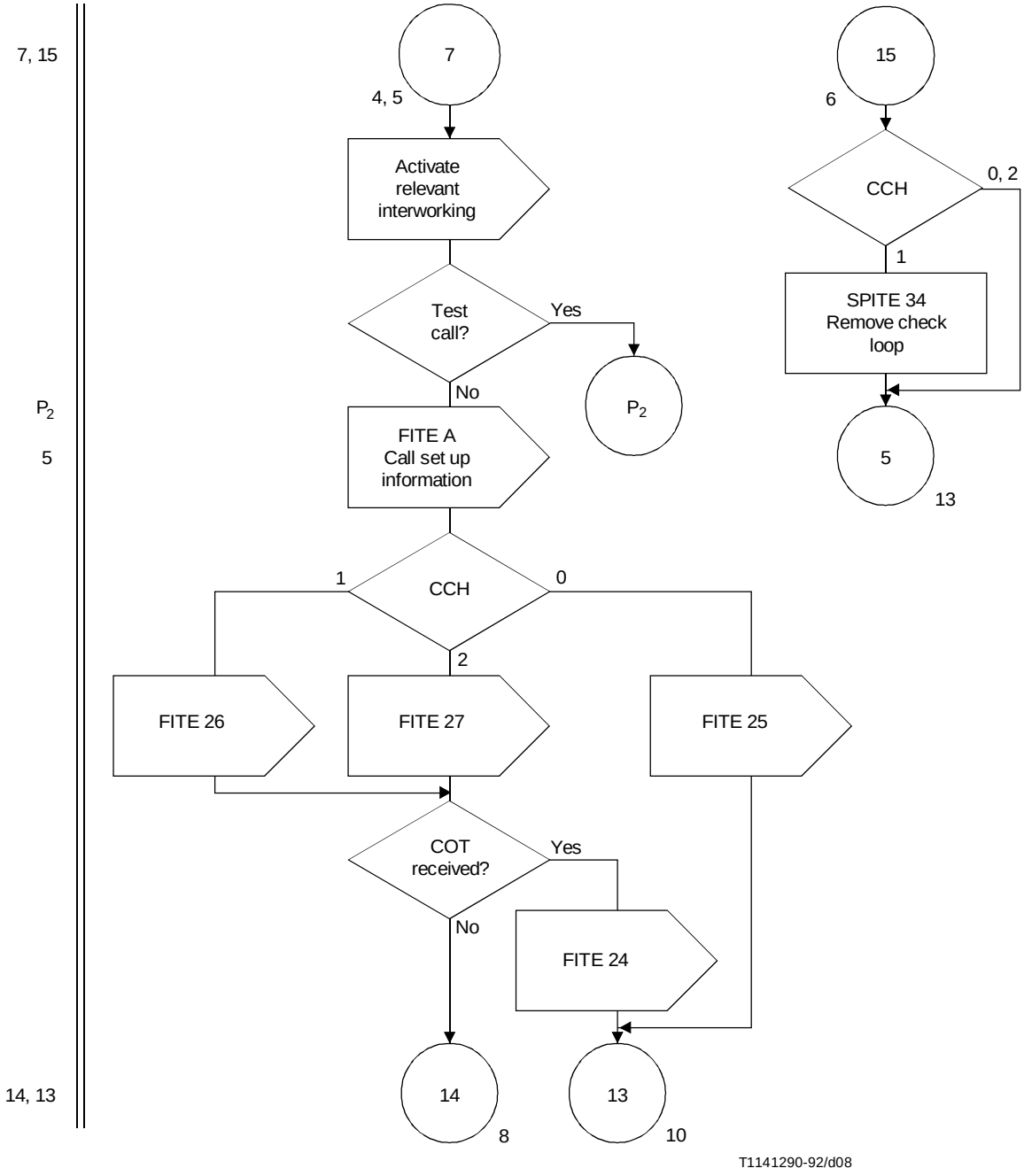
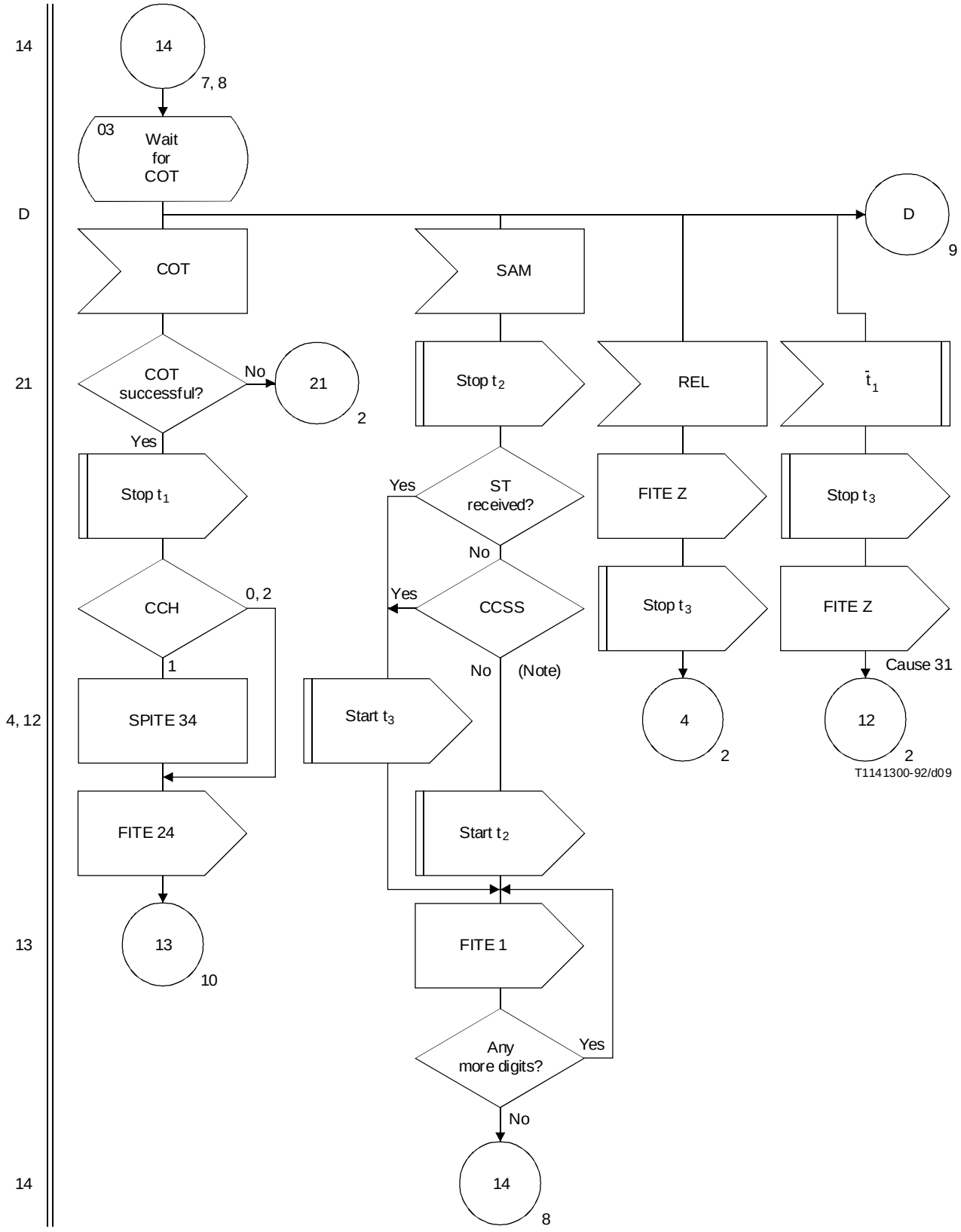


FIGURE 3/Q.617 (sheet 7 of 16)

Incoming Signalling System No. 7 (ISUP)



NOTE – Is outgoing link common channel signalling system?

FIGURE 3/Q.617 (sheet 8 of 16)

Incoming Signalling System No. 7 (ISUP)

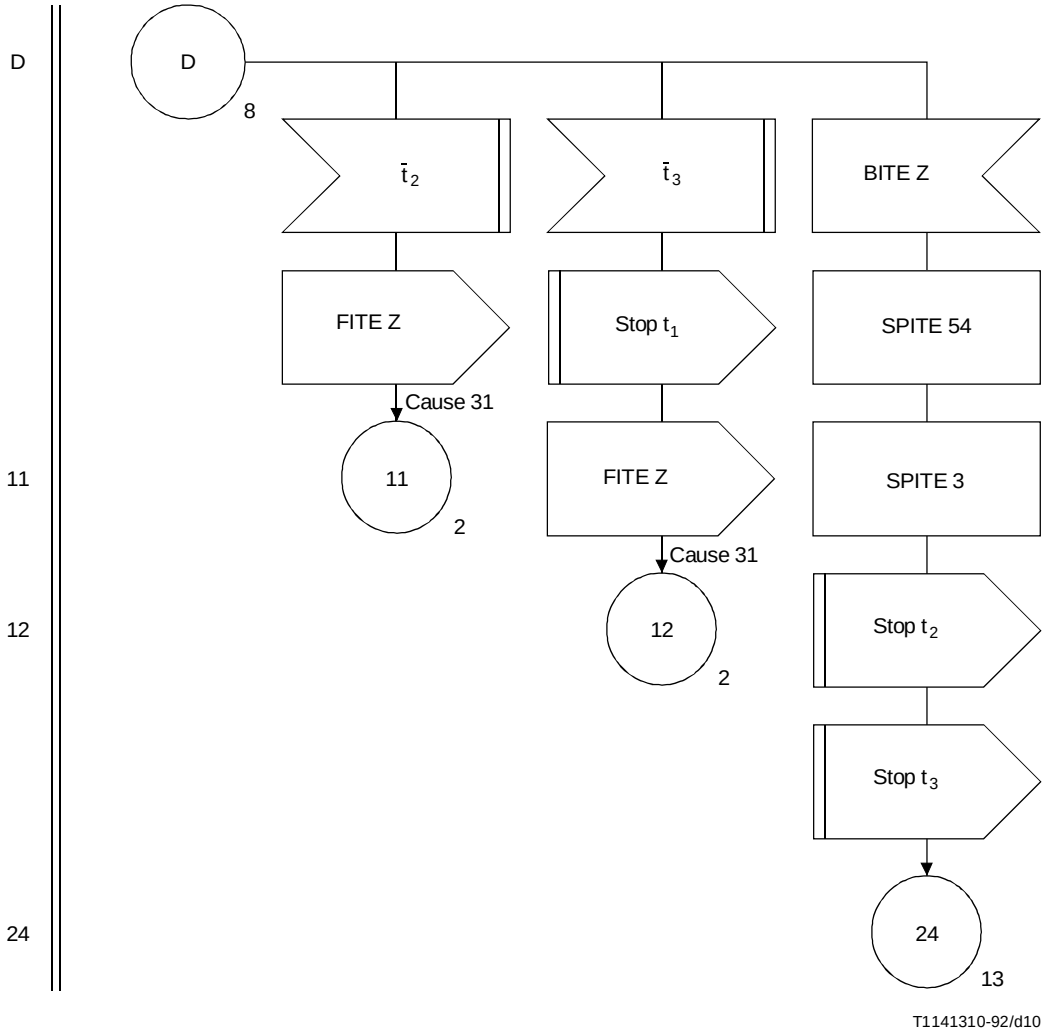
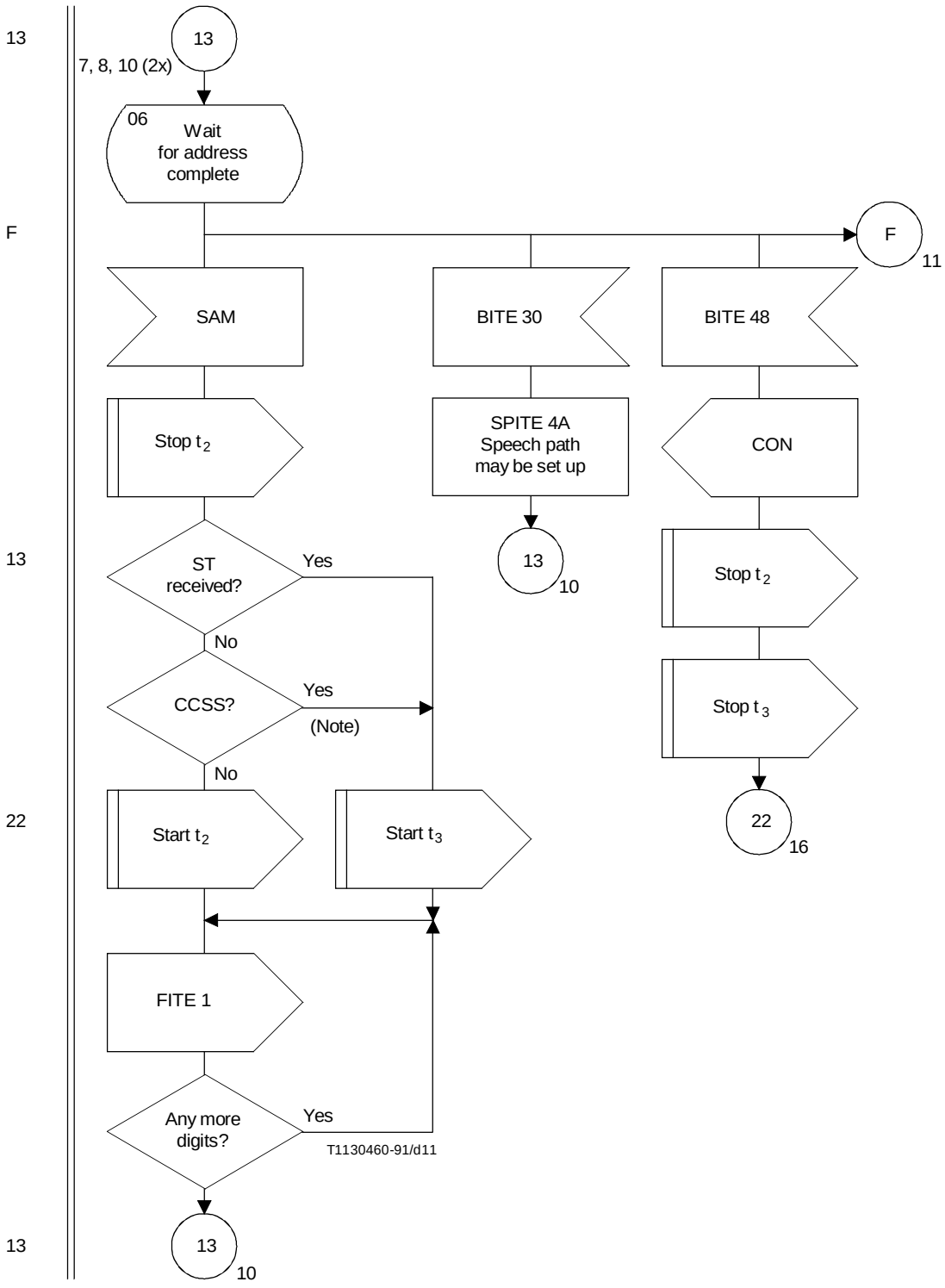


FIGURE 3/Q.617 (sheet 9 of 16)

Incoming Signalling System No. 7 (ISUP)



NOTE – Is outgoing link common channel signalling system?

FIGURE 3/Q.617 (sheet 10 of 16)

Incoming Signalling System No. 7 (ISUP)

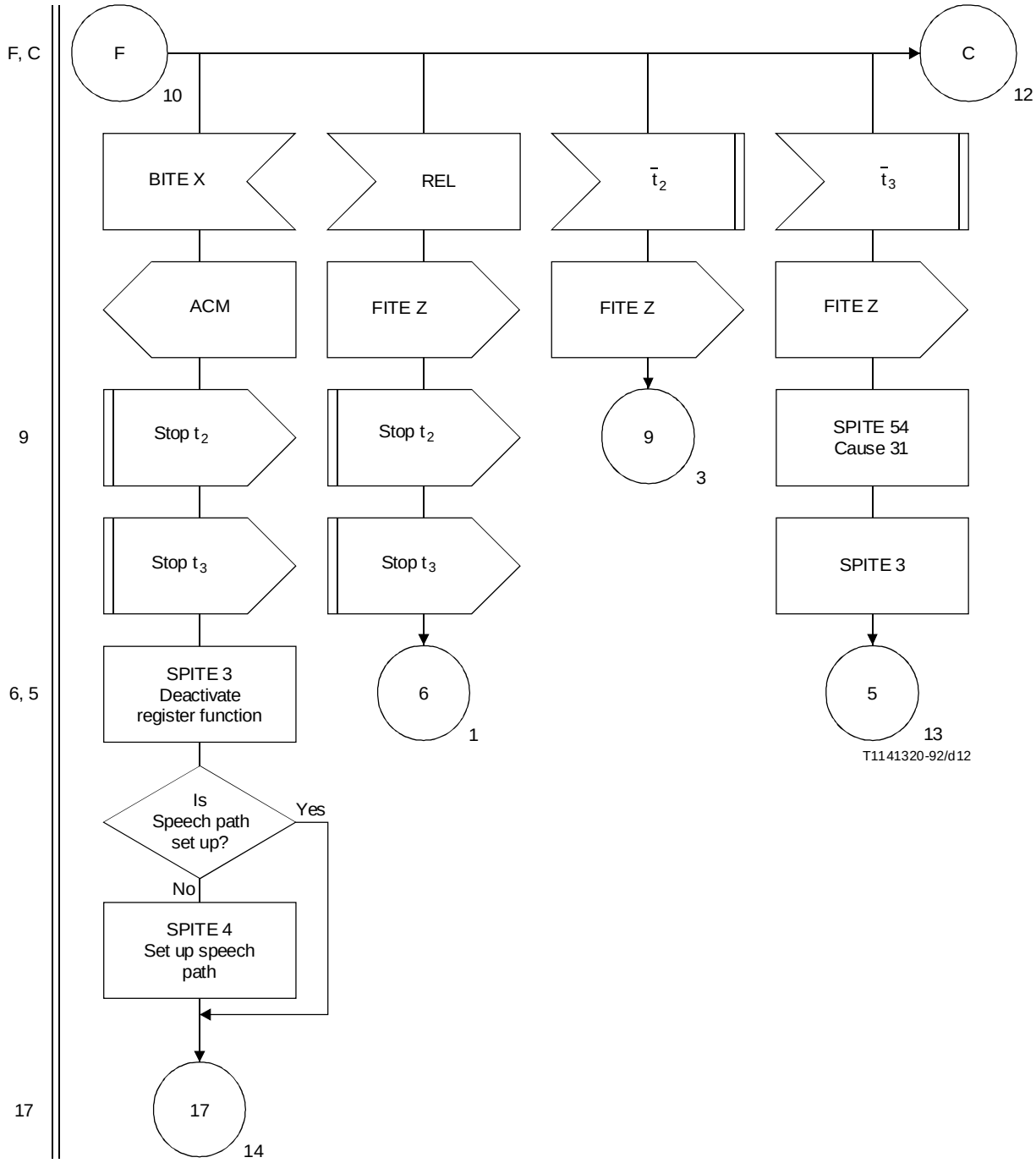


FIGURE 3/Q.617 (sheet 11 of 16)

Incoming Signalling System No. 7 (ISUP)

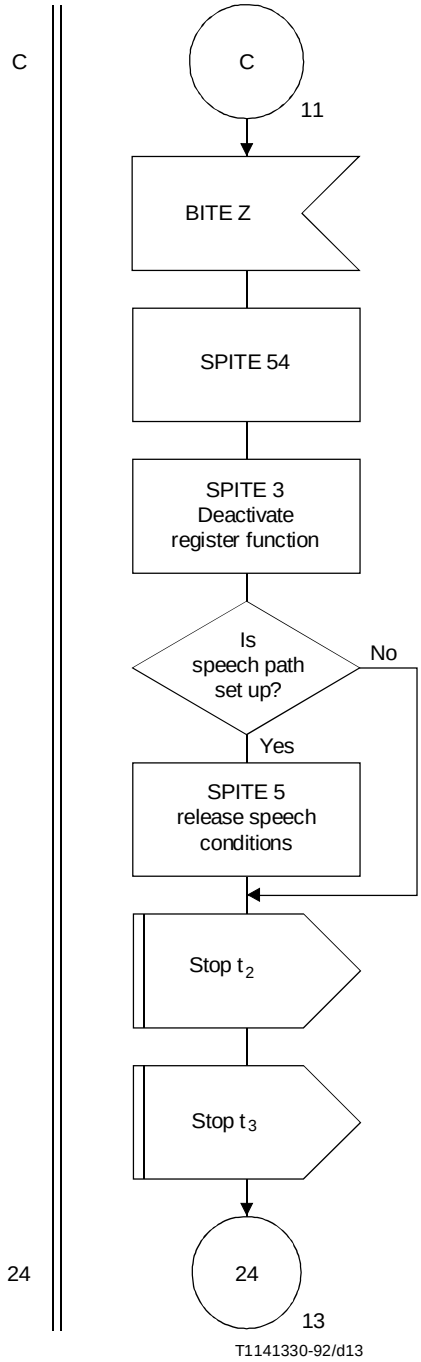


FIGURE 3/Q.617 (sheet 12 of 16)

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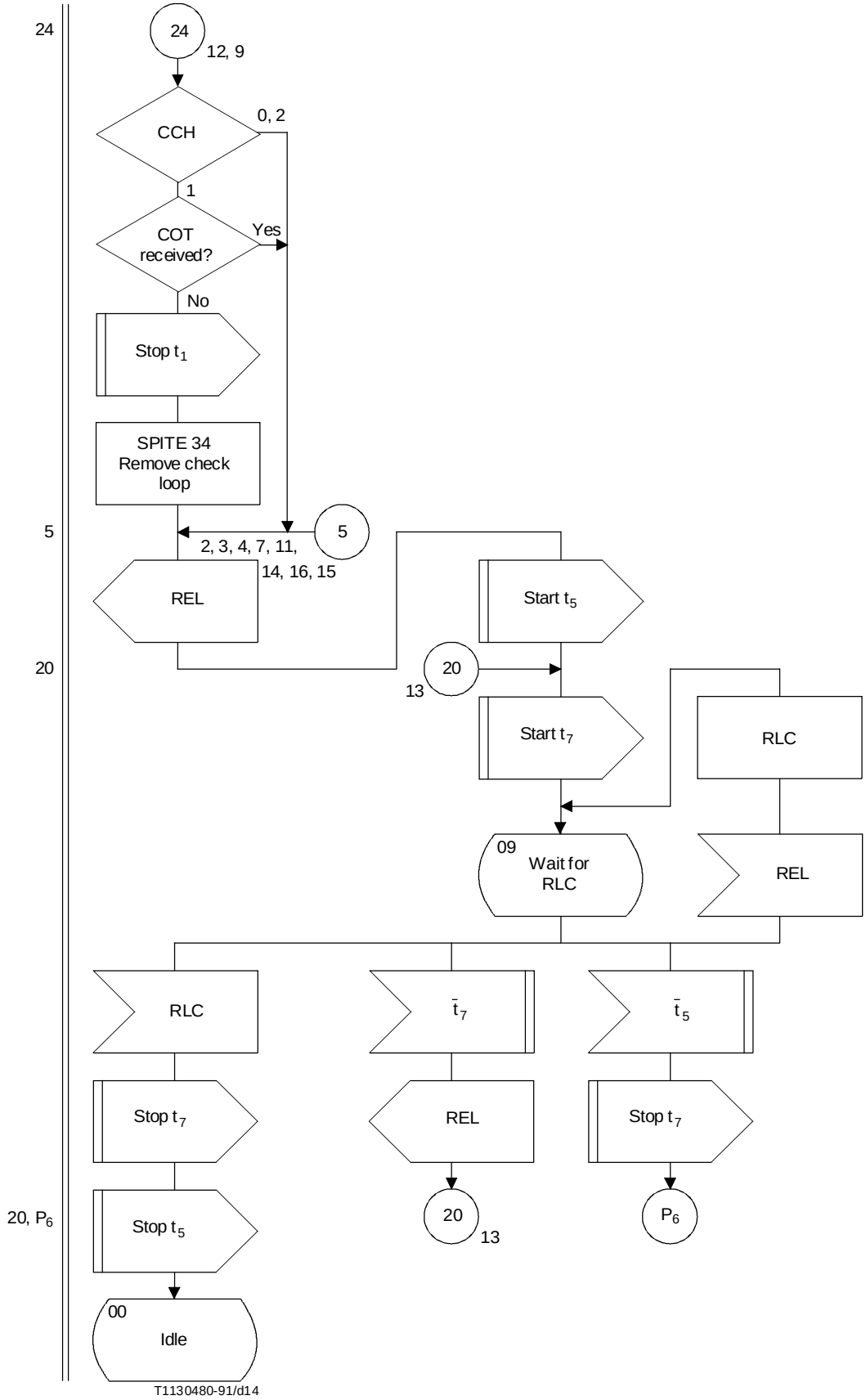

FIGURE 3/Q.617 (sheet 13 of 16)

Incoming Signalling System No. 7 (ISUP)

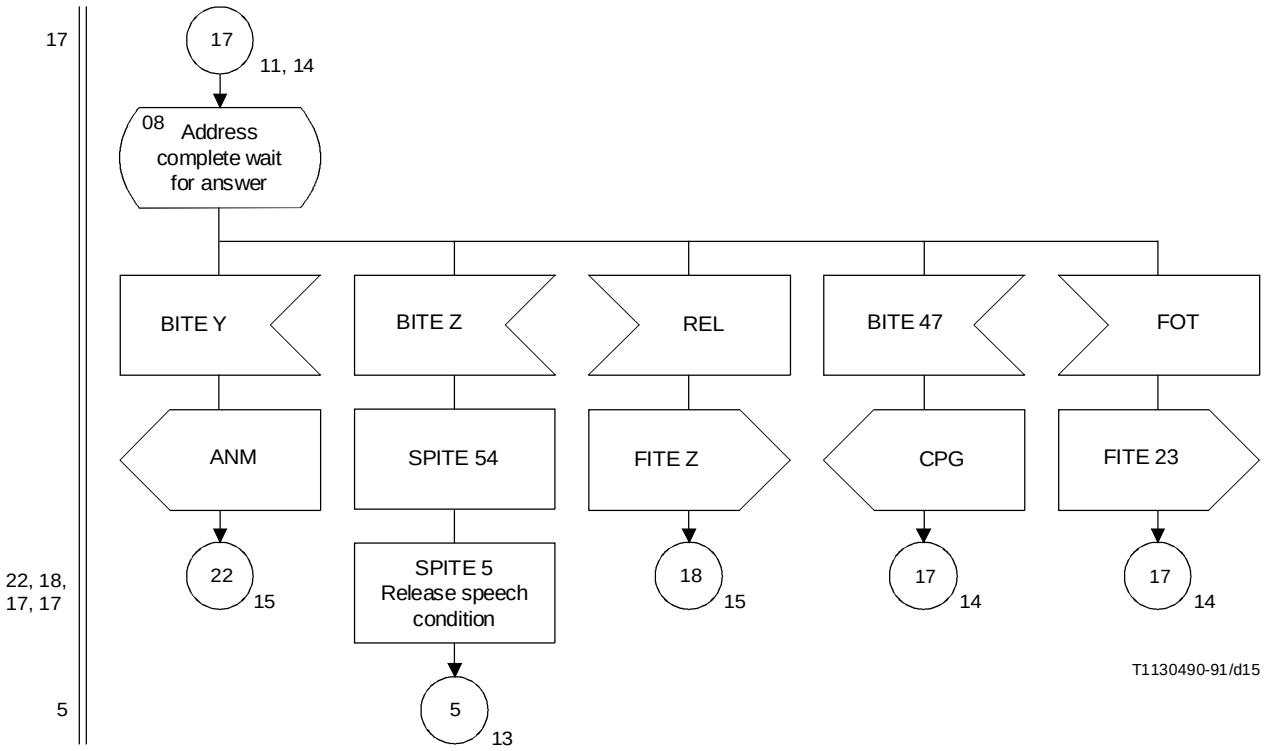

FIGURE 3/Q.617 (sheet 14 of 16)

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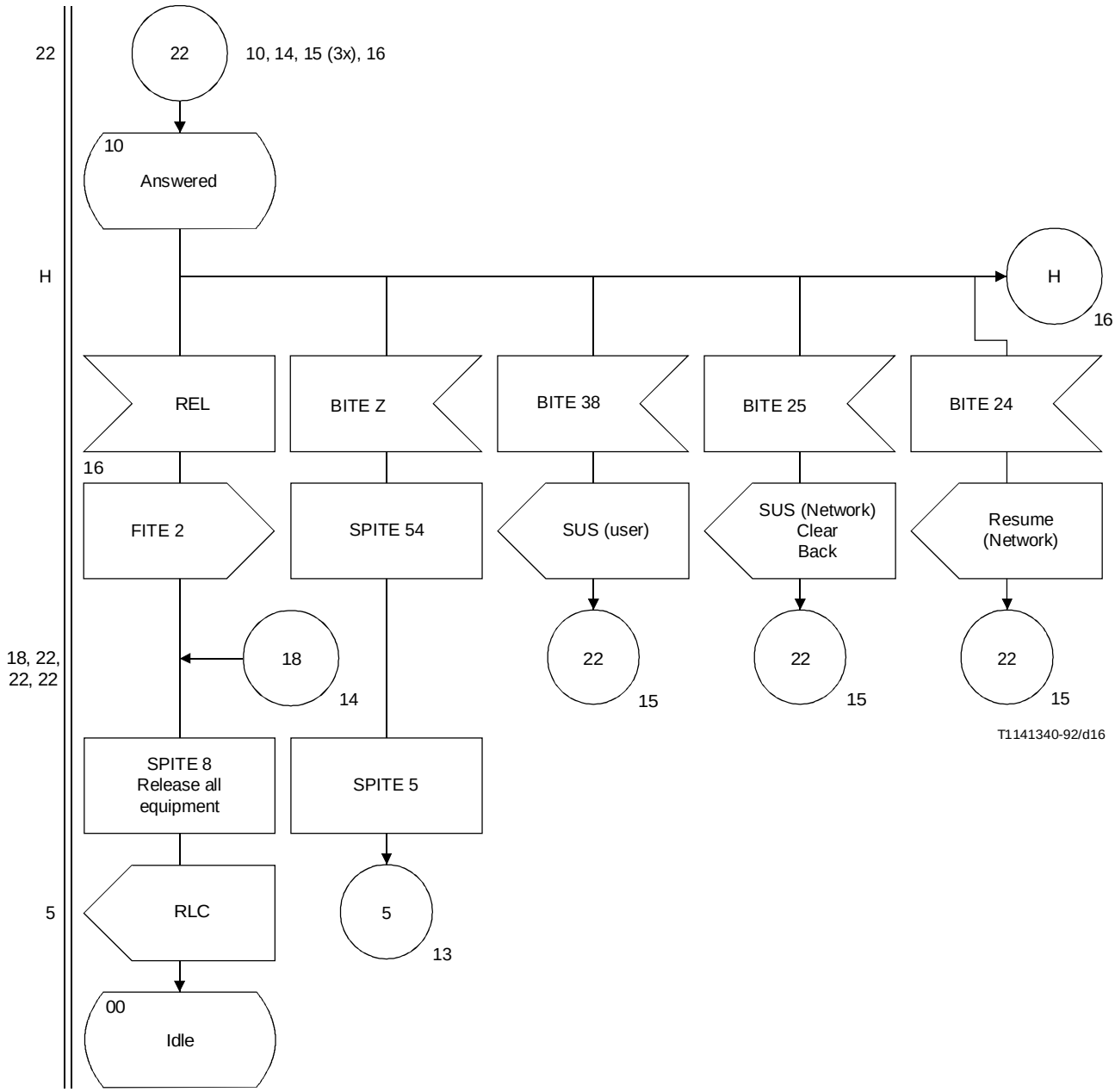

FIGURE 3/Q.617 (sheet 15 of 16)

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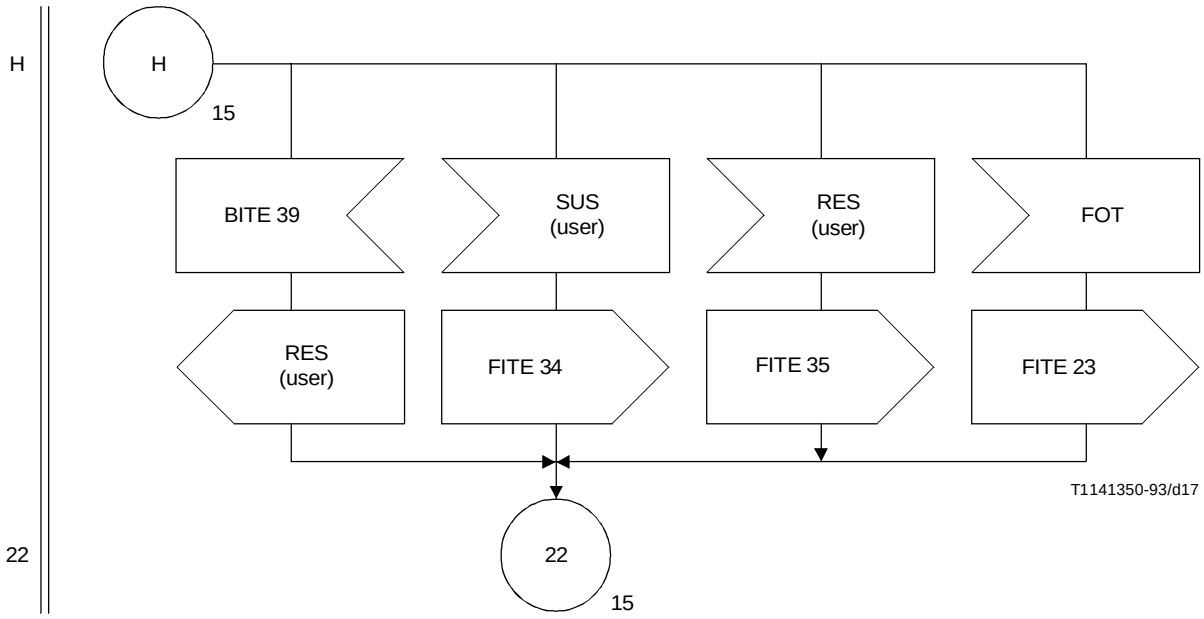

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Incoming Signalling System No. 7 (ISUP)