INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

Q.694
(03/93)

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

INTERWORKING OF SIGNALLING SYSTEMS

INTERWORKING OF SIGNALLING SYSTEMS –
LOGIC PROCEDURES FOR INTERWORKING OF SIGNALLING SYSTEM No. 7 (ISUP) TO R1

ITU-T Recommendation Q.694

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

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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 Similarly, in this reform process, the CCIR and the IFRB have been replaced by the Radiocommunication Sector.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.
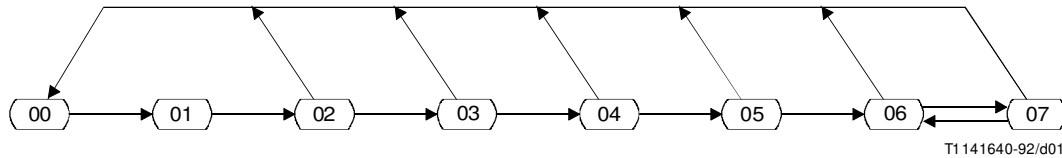
2   In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTERWORKING OF SIGNALLING SYSTEM – LOGIC PROCEDURES FOR INTERWORKING OF SIGNALLING SYSTEM No. 7 (ISUP) TO R1

(Helsinki, 1993)

T1141640-92/d01

State number	State description	Sheet reference
00	Idle	1, 4
01	Wait for call	1
02	Set up information Wait for COT	1
03	Wait for address-complete	2
04	Wait for register deactivation	3
05	Wait for answer	3
06	Answered	4
07	Clear-back	4

FIGURE 1 /Q.694

State overview diagram for interworking of Signalling System No. 7 (ISUP) to R1

Procedures not shown

P1 – No transit working is defined for R1

FIGURE 2/Q.694

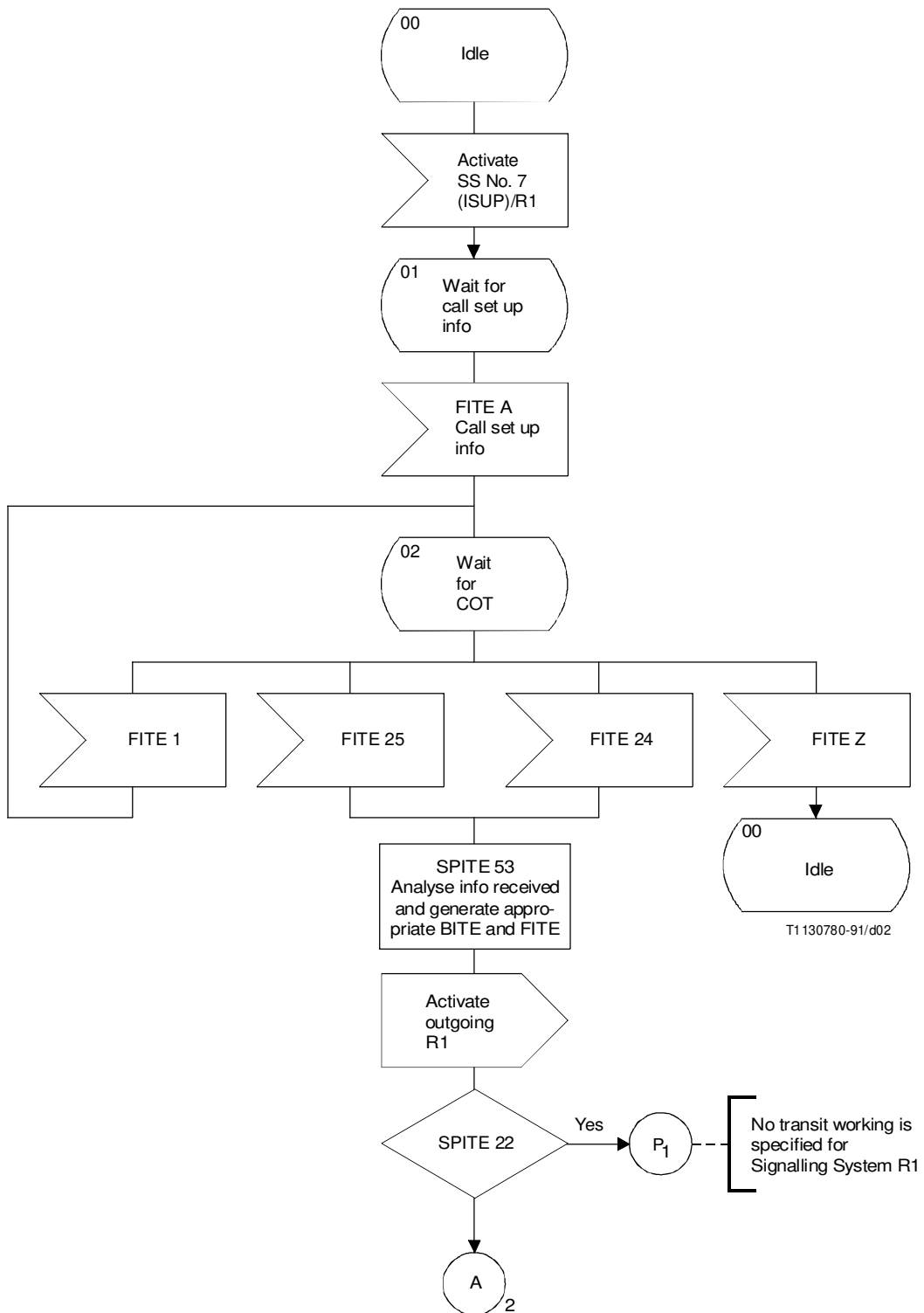**Note to the interworking of Signalling System No. 7 (ISUP) to R1**

Connector reference

00 Idle

Activate
SS No. 7
(ISUP)/R1

01 Wait for
call set up
info

FITE A
Call set up
info

02 Wait
for
COT

FITE 1   FITE 25   FITE 24   FITE Z

SPITE 53
Analyse info received
and generate appro-
priate BITE and FITE

00 Idle

T1130780-91/d02

Activate
outgoing
R1

SPITE 22   Yes P_1 No transit working is
specified for
Signalling System R1

A
2

A

FIGURE 3/Q.694 (sheet 1 of 4)

Interworking of Signalling System No. 7 (ISUP) to R1

A

A 1

No

Any more
FITE 1?

No

1

1

Yes

Country
code FITE?

Yes

No

2

1, 2

7

FITE 1

Omit country
code FITE

03 Wait for
address
complete

Artificial

FITE 1

BITE 26

FITE Z

1

2

2

4

SPITE 53
(Table 1)

T1130790-91/d03

BITE X

7

3

FIGURE 3/Q.694 (sheet 2 of 4)

Interworking of Signalling System No. 7 (ISUP) to R1

Connector
reference
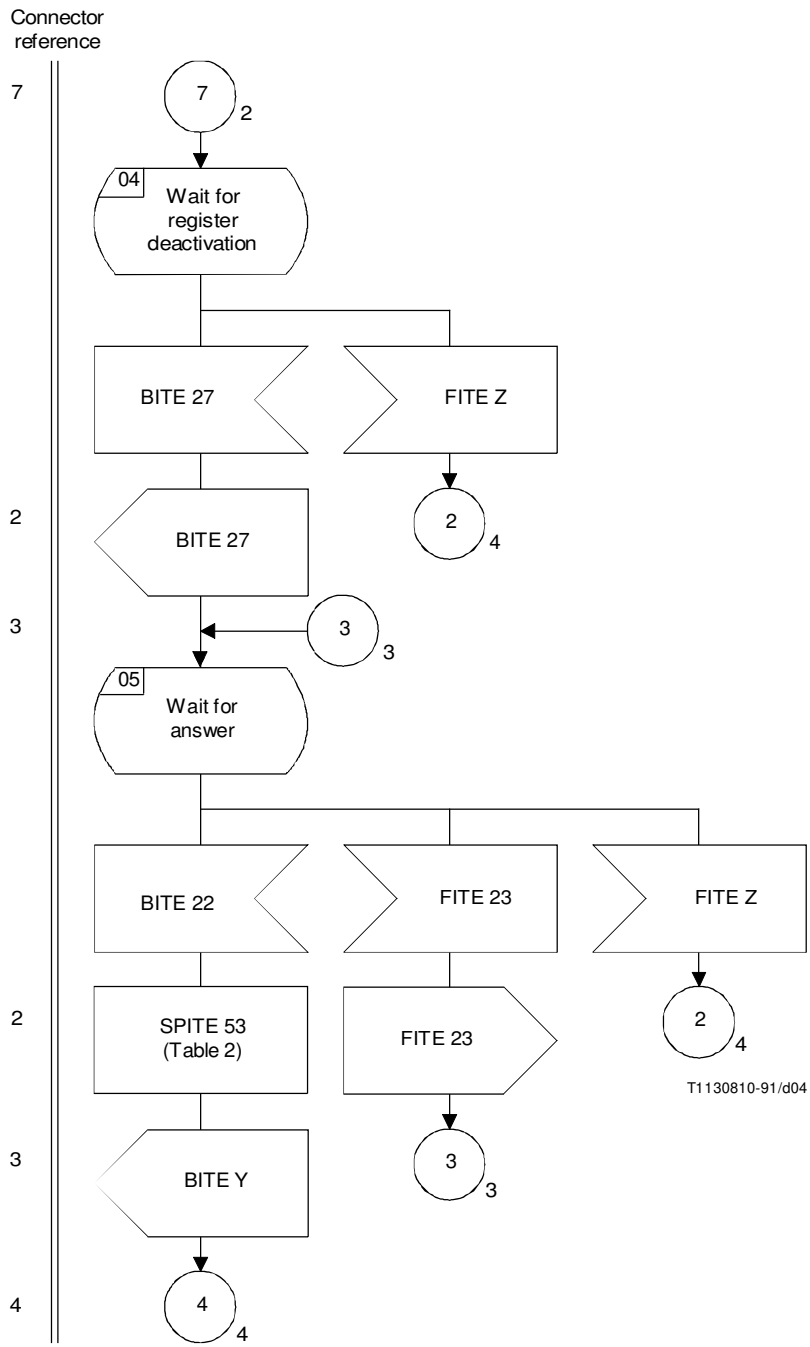
FIGURE 3/Q.694 (sheet 3 of 4)

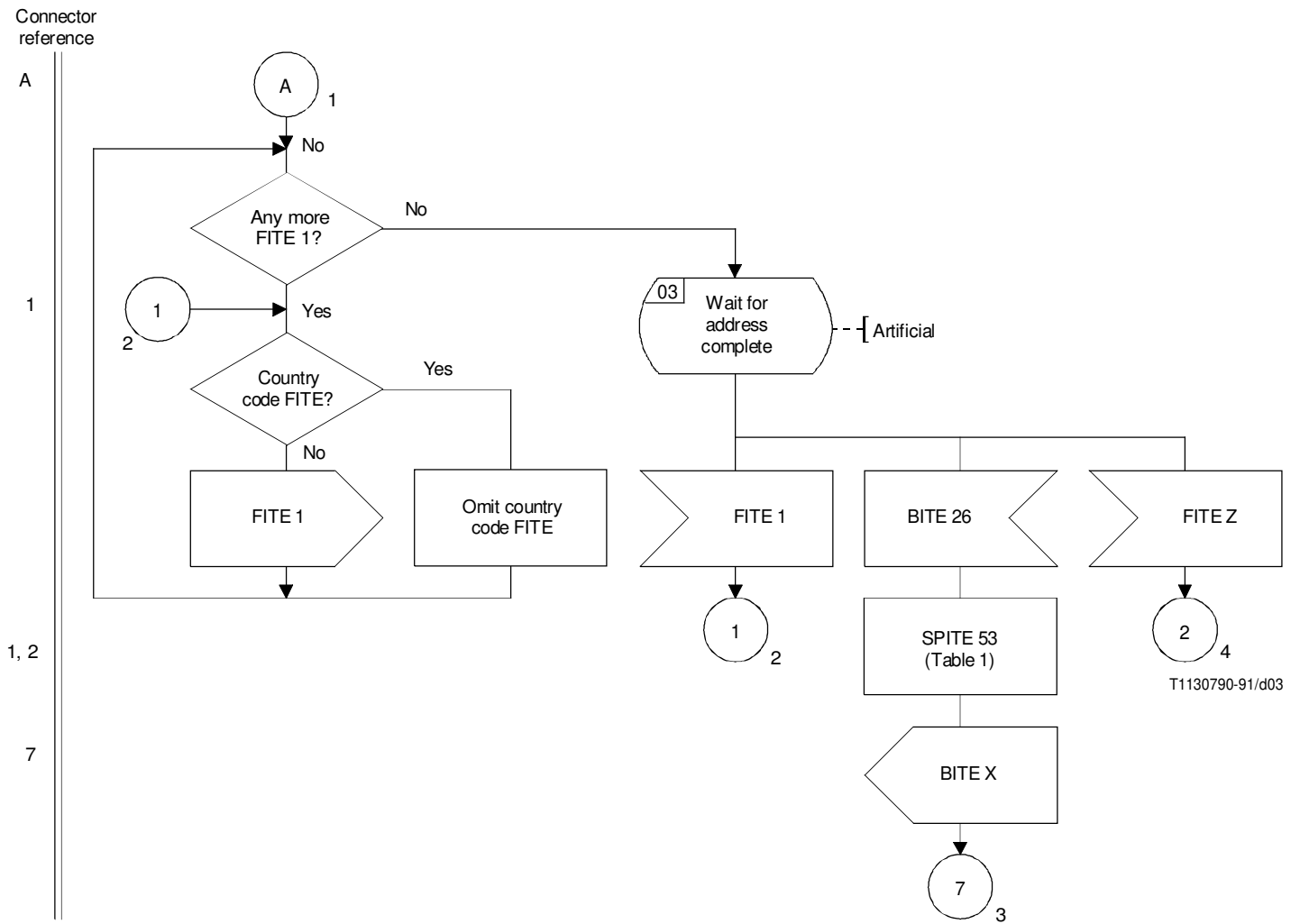**Interworking of Signalling System No. 7 (ISUP) to R1**

Connector
reference

4

2×4

4

06
Answered

BITE 25   FITE 23   FITE Z

2

BITE 25   FITE 23

2
4

5
4

5
4

07   Clear-back

BITE 22   FITE 23   FITE Z

2

2, 3 ($\times$ 2), 4

2

BITE 24   FITE 23   FITE 22

4, 5

4
4

5
4

Idle

T1130800-91/d05
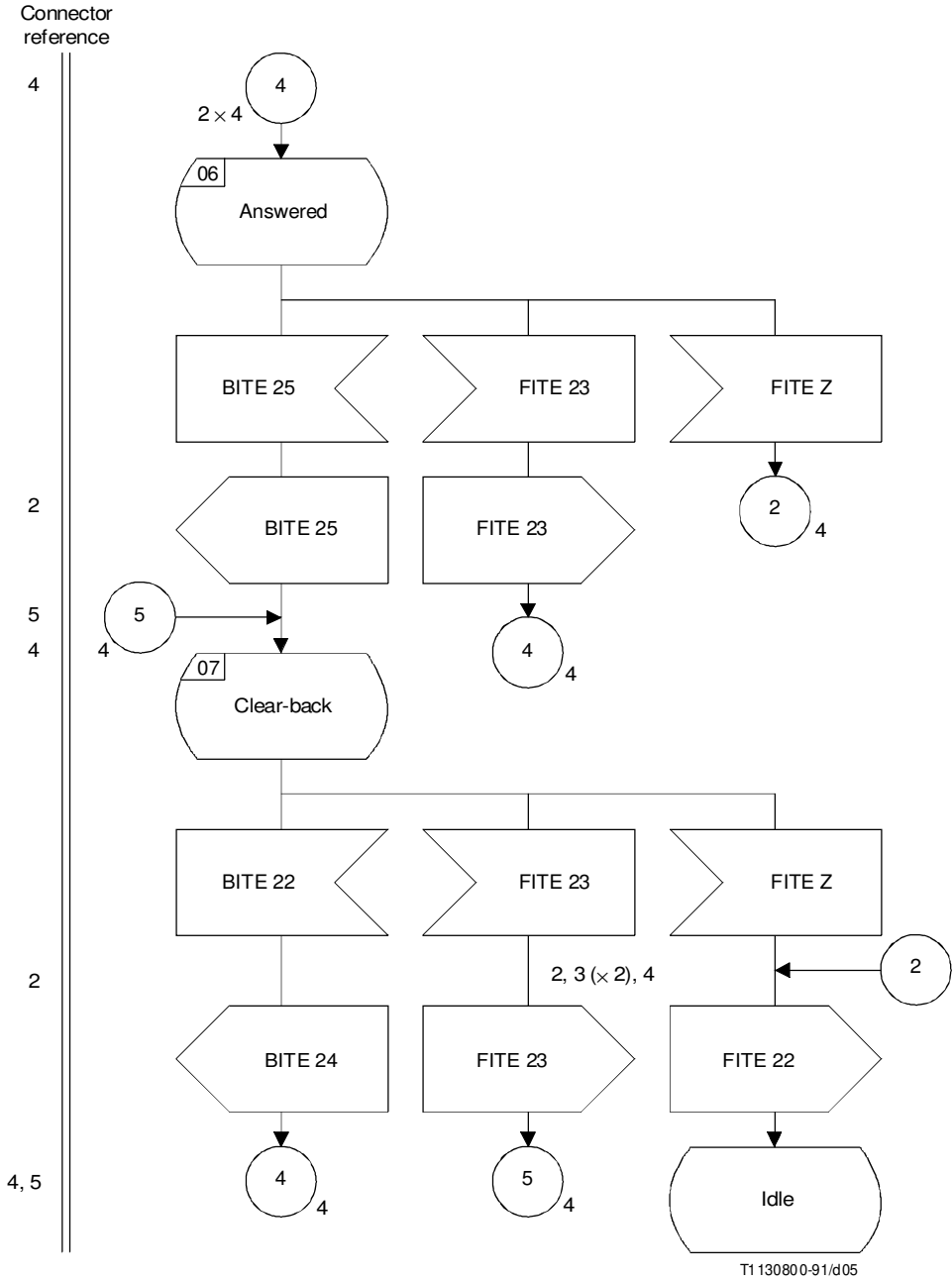
FIGURE 3/Q.694 (sheet 4 of 4)

Interworking of Signalling System No. 7 (ISUP) to R1

TABLE 1/Q.694

Received BITE	
Backward call indicators in ACM	26
Charging indicator	10
Called party's status	00
Called party's category	00
Interworking indicator	1

TABLE 2/Q.694

Backward call indicators in ANM
ANM without backward call indicators is to be sent