JT-Q764 Signalling Procedures

1.Relations with international standards

This standard conforms to ITU-T Recommendation Q.764 approved at the ITU-T SG11 plenary meeting in December 1999.

2.Summary of departures from ITU-T Recommendations

2.1 Selection of optional items

None

2.2 National items

None

2.3 Others

(1) This Standard omits the description of the following items for the above ITU-T Recommendation, or selects one of the optional items described therein.

Description which is specified in ITU-T Recommendation but is out of scope of this Standard, is remained in this Standard and is marked with '#' to assist for understanding.

(a) The descriptions for international connection are deleted.

(b) The deleted items except (a) and the reasons for the deletion are shown in Table 1.

(c) The selected items and the reasons for the selection are shown in Table 2.

(2) This Standard adds the following items to the above international standard. (marked with '*' in this Standard)

(a) The added items and the reasons for the addition are shown in Table 3.

(3) This Standard specifies the following items from the above international standard as national matters.

(a) 2.1.11 Transit network selection

(b) 2.8.3 Circuit group query

3.The history of revised versions

Version	Date	Outline
1	April 28, 1987	Established.
1.1	July 15, 1987	The following pages are corrected for misprints and incorrect wording in the SDL; P256, 258, 259, 262, 264, 265, 270, 271, 274, 275, 278, 279, 284, 287, 288, 292, 307～310, 313, 331, 342～347, 360～362, 365～368, 372, 375, 377.
2	April 28, 1989	Recommendation Q.764 was revised at the ITU-T in 1988
3	April 27, 1993	Revised according to proceeding of ITU-T.
4	Nov. 28, 1995	Revised for the enhancement of ISUP procedures for analogue calling line identification presentation.
5	Nov. 26, 1997	Added signalling procedure for interconnection billing System.
6	Nov. 26, 1998	Added signalling procedure for interconnection billing System and congestion control.
7	April 22, 1999	Revised according to proceeding of ITU-T.
7.1	Sept. 8, 1999	Editorial changes
8	Nov. 25, 1999	Added signalling procedure for presubscription
9	April 20, 2000	Added the descriptions needed to BICC procedures newly standardized as JT-Q1901, donor SCP carrier information and recipient SCP carrier information.
10	Nov. 30, 2000	Clarified the description of Charge Information Delay parameter.
11	April 19, 2001	Revised according to proceeding of ITU-T.
12	May 30, 2002	Revised to add the signalling procedure for emergency call

Table 1(1/2) Deletion procedure in the TTC Standard

Chapter & Paragraph in ITU-T	Item	Reason for Deletion
2.1.1.1 b)	The end of pulsing (ST) signal	Because this signal is used for overlap sending, this function is not necessary for national use.
2.1.2	Forward Address Signalling-Overlap operation	Overlap sending is not necessary for national use.
2.1.3	Message not included in the initial address message, requested by the destination exchange.	Revised according to proceeding of ITU-T
2.1.4.6 b)	The awaiting answer timer (T9)	This timer is not necessary for national use and in the case of international use it is only implemented at the international gateway exchange.
2.1.6	Information messages	This message is used for the link-by- link procedure to transfer the end-to- end information between exchanges. Because the end-to-end information transfer isn't standardized it is not necessary to standardize this message.
2.1.7.2 2.1.7.6	The awaiting answer timer (T9)	This timer is the same as in item 2.1.4.6 b).
2.1.8	Continuity-check of the circuit	Because the TTC Standard assumes a digital circuit no continuity check is needed. Interworking specification is needed.
2.1.10	Forward Transfer Message	Because this message is needed to communicate between operator positions to connect an inter-national call this specification isn’t needed.
2.5	Connection type with fall back procedure	This item is not required at this time.
2.6	Propagation delay determination procedure	This item is not necessary for national use.
2.7	Description for dynamic echo control	

Table 1(2/2)　Deletion procedure in the TTC Standard

Chapter & Paragraph in ITU-T	Item	Reason for Deletion
2.9.5	Description using Facility reject message and Facility request message	The procedure for using message, such as facility reject isn't standardized.　For facility request there is no supplementary service to use those messages in its signalling procedure.
2.9.7	Failure to receive a response to an information request message	The procedure for using this message isn't standardized because the procedure isn't necessary for national use.
2.9.9	Temporary trunk blocking (TTB)	This item is not necessary for national use.
2.10	ISDN User signalling congestion control	This item isn't standardized because there is no function in the TTC-MTP Recommendation corresponding to this item.
2.12	Unequipped Circuit Identification code message	This item is not necessary for national use.
2.13	ISDN User Part availability control	
2.14	MTP pause/resume	
2.16	Temporary alternative routing (TAR)	
2.17	Hop counter procedure	
2.18	Collect call request procedure	
2.19	Support of network management when network is hard to reach	

Table 2　Items to be selected in the TTC Standard

Chapter Paragraph	Item	Reasons for Selection
2.9.1.3	Prevention of dual seizure	Methods 1 and 2 are recommended in the ITU-T Standard because their alternative methods consider the capability of the different interworking.　This means that each exchange can adopt either method.

Table 3　Added procedures to the TTC Standard

Chapter Paragraph	Item	Reasons for Addition
2.1.4.1	Condition to sent address complete message when terminating subscriber interface is non-ISDN	This is the procedure for supporting analogue calling line identification presentation.
2.1.5	Call progress message before address complete message	This is the procedure for applying inband information from/to a transit exchange during call set-up phase in ISDN environment. Its necessity is agreed in TTC and it is added to the Standard.
2.1.8	Transfer function of continuity-check request message	A continuity check is not necessary for digital transmission. Continuity checks, however, may be performed in a preceding network in which case, a transfer of continuity message is needed.
2.8.3.3	Test procedure of the circuit state using the circuit query test	Because the test procedure, especially the escape procedure for the unmatched state, was not agreed on during the last study period of the ITU-T, this item is deleted from Recommendation.　However it is necessary and has no problem.　So it is remained in TTC standard.
Annex a	Interconnection billing system	Defined to deepen understanding signalling procedure for interconnection billing system.
Annex b	Signalling procedure for preventing reduplicate congestion control	Defined to deepen understanding signalling procedure for preventing reduplicate congestion control.
Annex c	Signalling procedure for voice announcement of the selected-carrier name on presubscription	Defined to deepen understanding signalling procedure for voice announcement of the selected-carrier name on presubscription
Annex d	Signalling procedure for emergency call	Defined to deepen understanding signalling procedure for emergency call.