

JT-Q2931

Broadband Integrated Service Digital Network (B-ISDN) Digital Service Signalling System No. 2 (DSS2) — User-Network Interface (UNI) Layer 3 Specification For Basic Call/Connection Control

1. Relations with international standards

This standard is based on the ITU-T Recommendation Q.2931 approved in the SG11 meeting (February 1995) and the Amendments 1,2,3,4 to ITU-T Recommendation Q.2931.

2. Summary of differences from the international recommendations

(1) Of the optional items in ITU-T Recommendation Q.2931, the following have been selected as the TTC standards.

(A) As the sending procedure of the Called party number from the calling party, en bloc sending is considered as a standard and the overlap sending is non-standard.

(B) As the incoming call procedure to the called party, the en bloc procedure is considered as a standard and the overlap receiving is non-standard.

(2) Other optional items except for (1) above are summarized in Table 1 of this summary.

(3) ITU-T Q.2931 amendment 2,3,4 are established as annex a,b,c in JT-Q2931.

3. The history of revised versions

Version	Date	Outline
1	Nov 24, 1994	Established
2	Nov 26, 1997	Change a definition in Broadband Bearer Capability Information Element into the reference to JT-Q2961.2
3	April 20, 2000	Establishment of amendment 2,3,4 as annex a,b,c, and editorial correction.

Table 1 List of optional items(1/4)

No.	Item (Section number)	Options		Remark
		Network	User	
1	Indication and negotiation of AAL parameters I.E. (3.1.7, 3.2.3, 4.5.5, Annex F)	Provided	Used/Not used	
		Not provided	-	
2	Broadband high layer I.E. (3.1.7, 4.5.8)	Provided	Used/Not used	
		Not Provided	-	
3	Indication and negotiation of Broadband low layer I.E. (3.1.7, 4.5.9, Annex C)	Provided	Used/Not used	
		Not Provided	-	
4	Maximum length of Called party number I.E. (3.1.7, 3.2.3, 3.2.7, 4.5.11)	Implementation matter		
5	Called party subaddress I.E. (3.1.7, 3.2.7, 4.5.12)	Provided	Used/Not used	
		Not Provided	-	
6	Maximum length of Calling party number I.E. (3.1.7, 3.2.7, 4.5.13)	Implementation matter		
7	Calling party subaddress I.E. (3.1.7, 3.2.7, 4.5.14)	Provided	Used/Not used	
		Not Provided	-	
8	Connection identifier I.E. in a SETUP message (3.1.7, 3.2.7, 4.5.16, 5.1.2, 5.2.3)	Provided/Not provided	Provided/Not provided	Mandatory in some cases (see chapter 5)
9	End-to-end transit delay I.E. (3.2.3, 3.2.7, 4.5.17, 6.2.2, Annex K)	-	Used	Mandatory for network
			Not used	
10	Transit network selection I.E. (3.1.7, 3.2.7, 4.5.22, 5.1.9, Annex D)	Provided	Used/Not used	Maximum length depends on a network.
		Not provided	-	
11	OAM traffic descriptor I.E. (3.1.7, 3.2.3, 3.2.7, 4.5.24, 6.2.2, Annex I)	Provided	Used/Not used	
		Not provided	-	
12	Narrowband high layer compatibility I.E. (3.2.1, 3.2.2, 3.2.5, 3.2.7, 4.6.3)	Provided	Used/Not used	
		Not provided	-	
13	Narrowband low layer compatibility I.E. (3.2.3, 3.2.7, 4.6.4)	Provided	Used/Not used	
		Not provided	-	
14	Progress indicator I.E. (3.2.1, 3.2.2, 3.2.3, 3.2.5, 3.2.6, 3.2.7, 4.6.5, 3.2.8)	Provided	Used/Not used	
		Not provided	-	

Table 1 List of optional items(2/4)

No.	Item (Section number)	Options		Remark
		Network	User	
15	Maximum length and allowed repetition time of Notification indicator I.E. (3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1.5, 3.1.7, 3.1.10, 3.2.1, 3.2.2, 3.2.3, 3.2.5, 3.2.6, 3.2.7, 3.2.8)	Determined by the network	-	
16	Message instruction indicator (4.4.1, Appendix I)	Follow explicit instructions/ Message instruction field not significant	Follow explicit instructions/ Message instruction field not significant	
17	Information element instruction indicator (4.5.1, Appendix I)	Follow explicit instructions/ I.E. instruction field not significant	Follow explicit instructions/ I.E. instruction field not significant	
18	Use NSAP addressing and private numbering plan to Called/Calling party address (4.5.11, 4.5.12)	Provided	Used/Not used	Refer JT-Q850 and JT-Q2650 in detail.
		Not provided	-	
19	Provision of diagnostic information for Cause I.E. (4.5.15)	Provided	Used/Not used	Refer JT-Q850 and JT-Q2650 in detail.
		Not provided	-	
20	Separate shaping (4.5.24, Annex I)	Provided	Used/Not used	
		Not provided	-	
21	VP associated signalling procedure(5.1.2)	Provided	Used/Not used	Only used in case of prior agreement between the user and the network.
		Not provided	-	
22	Cause I.E. in RELEASE message in case of T308 expiring. (5.2.3, 5.4.4)	Included cause #102, "recovery on timer expiry".	Used/Not used	
		Not included cause #102, "recovery on timer expiry".	-	
23	Re-send of RESTART message in case of T316 timeout. (5.5.1.2)	Re-sent/Not re-sent	Re-sent/Not re-sent	The number of re-sent message depends on implementation.
24	Return of STATUS message when one or more unrecognized I.E. are included in the received message except for RELEASE and RELEASE COMPLETE message. (5.6.8.1)	Returned/Not returned	Returned/Not returned	
25	Return of STATUS message when one or more invalid contents are included in the received message except for RELEASE and RELEASE COMPLETE message. (5.6.8.2)	Returned/Not returned	Returned/Not returned	
26	Invocation of status inquiry procedure in case of SAAL reset by means of the AAL-ESTABLISH indication primitive for the call in the establishment phase.(5.6.9)	Invoked/Not Invoked	Invoked/Not Invoked	

Table 1 List of optional items(3/4)

No.	Item (Section number)	Options		Remark
		Network	User	
27	Clearing the internal connection in case of T309 expiring.(5.6.10)	-	Cleared/Not Cleared	
28	The number of re-sent STATUS ENQUIRY message in case of T322 expiring.(5.6.11)	Re-sent/Not re-sent	Re-sent/Not re-sent	The number of re-sent message depends on implementation.
29	Procedures on receipt of a STATUS message reporting an incompatible status.(5.6.12)	Clear the call/ Taking other actions which attempt to recover from a mismatch.	Clear the call/ Taking other actions which attempt to recover from a mismatch.	
30	Procedures on receipt of a STATUS message which reports same state, and includes cause #96, #97, #99, #100 or #101.(5.6.12)	Clear the call/ Taking other actions which attempt to recover from a mismatch.	Clear the call/ Taking other actions which attempt to recover from a mismatch.	
31	Procedures by high layer activity on receipt of STATUS message including global call reference.(5.6.12)	Implementation matter	Implementation matter	RESTART message may be sent.
32	Procedures on receipt STATUS message including global call reference except for following cases. ■ Reporting incompatible status in the Restart Request or Restart state. ■ Null state (5.6.12)	Implementation matter	Implementation matter	
33	Forward NOTIFY message to the other user and ensure its contents.(5.9)	Forwarded	Used/Not used	
		Not forwarded	-	
34	Procedures on receipt inconsistent combination of service parameters in case of interworking between N-ISDN and B-ISDN.(6.2.5)	Clear the call with cause #79, "service or option not implemented, unspecified."	-	In both cases, it can be processed in the formal procedures.
		Continue the call		
35	Network side timer process on receipt Progress indicator #4, "Call has returned to the ISDN" at the originating interface except for T302, T322.(6.6.1)	Stop	-	
		Not stop		
36	Network side timer process on receipt Progress indicator #4, "Call has returned to the ISDN" at the destination interface except for T301, T304, T312, T322.(6.6.2)	Stop	-	
		Not stop		
37	Cause I.E. in the RELEASE message in case of T306 expiring.(6.7.13)	Including cause #102,"recovery on timer expiry"	Used/Not used	
		Not including cause #102,"recovery on timer expiry"	-	

Table 1 List of optional items(4/4)

No.	Item (Section number)	Options		Remark
		Network	User	
38	Timer T316 (7.2 table 7-1)	Implemented	-	Mandatory for point-to-point access configuration.
		Not implemented		
39	Timer T317 (7.2 table 7-1)	Implemented	-	Mandatory for point-to-point access configuration.
		Not implemented		
40	Timer T306 (7.2 table 7-1)	Implemented	-	Mandatory when in-band tones/announcements are provided.
		Not implemented		
41	Timer T301 (7.2 table 7-2)	-	Implemented	Mandatory if Annex H is supported.
			Not implemented	
42	Timer T316 (7.2 table 7-2)	-	Implemented	Mandatory for point-to-point access configuration.
			Not implemented	
43	Timer T317 (7.2 tablw 7-2)	-	Implemented	Mandatory for point-to-point access configuration.
			Not implemented	
44	Extensions for symmetric call operation (Annex H)	Provided	Used/Not used	
		Not provided	-	
45	Status monitoring procedures for Semi-Permanemt virtual channel connections (Appendix III)	Provided	Used/Not used	
		Not Provided	-	