

Draft **ETSI EN 300 771-1** V2.0.1 (1999-12)

European Standard (Telecommunications series)

**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
B-ISDN user-network interface layer 3 specification
for point-to-multipoint call/bearer control;
Part 1: Protocol specification**

[ITU-T Recommendation Q.2971 (1995), modified]



Reference

REN/SPAN-05217

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UNI**ETSI**

Postal address

F-06921 Sophia Antipolis Cedex - FRANCE

Office address650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16
Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Internet

secretariat@etsi.fr

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document is part 1 of a multi-part EN covering the Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for point-to-multipoint call/bearer control, as described below:

- Part 1:** "**Protocol specification [ITU-T Recommendation Q.2971 (1995), modified]**";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

| Proposed national transposition dates | |
|----------------------------------------------------------------------------------------|---------------------------------|
| Date of latest announcement of this EN (doa): | 3 months after ETSI publication |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 6 months after doa |
| Date of withdrawal of any conflicting National Standard (dow): | 6 months after doa |

Endorsement notice

The elements of ITU-T Recommendation Q.2971 (1995), modified by its corrigendum 1 [15] (1999) apply, with the following modifications:

Page 1, clause 1

Replace clause 1 by:

1 Scope

The present document specifies the stage three of on-demand connection-oriented point-to-multipoint unidirectional single bearer connection release 1 basic telecommunication services for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided at the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [2]) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [1]).

In addition, the present document specifies the protocol requirements at the T_B reference point where the service is provided to the user via a private B-ISDN.

NOTE: Procedures at the T_B reference point, to support the access of a private B-ISDN to the public B-ISDN, are **not** explicitly identified in the present document, however, some procedures are applicable only at the T_B reference point.

A basic Telecommunications service is a service to which supplementary services may be added.

Further parts of the present document provide the method of testing and detailed application specific requirements to determine conformance to the present document.

The present document is applicable to equipment supporting connection-oriented basic B-ISDN telecommunication services, to be attached at either side of a T_B reference point or coincident S_B and T_B reference points when used as an access to the public B-ISDN.

Page 1, clause 2

Replace clause 2 by:

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

[2] ITU-T Recommendation I.413 (1993): "B-ISDN user-network interface".

- [3] ETS 300 437-1: "Broadband Integrated Services Digital Network (B-ISDN); Signalling ATM Adaptation Layer (SAAL); Service Specific Co-ordination Function (SSCF) for support of signalling at the User-Network Interface (UNI); Part 1: Specification of SSCF at UNI [ITU-T Recommendation Q.2130 (1995), modified]".
- [4] ETS 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [5] ETS 300 661-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Direct Dialling In (DDI) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 1 (1995), modified]".
- [6] ETS 300 662-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Multiple Subscriber Number (MSN) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 2 (1995), modified]".
- [7] ETS 300 663-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Calling Line Identification Presentation (CLIP) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 3 (1995), modified]".
- [8] ETS 300 664-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Calling Line Identification Restriction (CLIR) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 4 (1995), modified]".
- [9] ETS 300 665-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Presentation (COLP) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 5 (1995), modified]".
- [10] ETS 300 666-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Restriction (COLR) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 6 (1995), modified]".
- [11] ETS 300 667-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Subaddressing (SUB) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 8 (1995), modified]".
- [12] ETS 300 668-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; User-to-User Signalling (UUS) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2957, clause 1 (1995), modified]".
- [13] ETS 300 685-1: "Broadband Integrated Services Digital Network (B-ISDN); Usage of cause and location in Digital Subscriber Signalling System No. two (DSS2) and Signalling System No.7 B-ISDN User Part (B-ISUP) [ITU-T Recommendation Q.2610 (1995), modified]".
- [14] ETS 300 770-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Closed User Group (CUG) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2955.1 (1996), modified]".
- [15] ITU-T Recommendation Q.2971 corrigendum 1 (1999).

NOTE: Not yet published.

Throughout the text of ITU-T Recommendation Q.2971

Replace references as shown in the following table:

| Reference Q.2971 | Modified reference |
|-------------------------------|-----------------------------------------------------------------|
| ITU-T Recommendation Q.2130 | ITU-T Recommendation Q.2130 as modified by ETS 300 437-1 [3] |
| ITU-T Recommendation Q.2610 | ITU-T Recommendation Q.2610 as modified by ETS 300 685 [13] |
| ITU-T Recommendation Q.2931 | ITU-T Recommendation Q.2931 as modified by ETS 300 443-1 [4] |
| ITU-T Recommendation Q.2951.1 | ITU-T Recommendation Q.2951.1 as modified by ETS 300 661-1 [5] |
| ITU-T Recommendation Q.2951.2 | ITU-T Recommendation Q.2951.2 as modified by ETS 300 662-1 [6] |
| ITU-T Recommendation Q.2951.3 | ITU-T Recommendation Q.2951.3 as modified by ETS 300 663-1 [7] |
| ITU-T Recommendation Q.2951.4 | ITU-T Recommendation Q.2951.4 as modified by ETS 300 664-1 [8] |
| ITU-T Recommendation Q.2951.5 | ITU-T Recommendation Q.2951.5 as modified by ETS 300 665-1 [9] |
| ITU-T Recommendation Q.2951.6 | ITU-T Recommendation Q.2951.6 as modified by ETS 300 666-1 [10] |
| ITU-T Recommendation Q.2951.8 | ITU-T Recommendation Q.2951.8 as modified by ETS 300 667-1 [11] |
| ITU-T Recommendation Q.2955.1 | ITU-T Recommendation Q.2955.1 as modified by ETS 300 770-1 [14] |
| ITU-T Recommendation Q.2957.1 | ITU-T Recommendation Q.2957.1 as modified by ETS 300 668-1 [12] |

Page 2, clause 3

Add the following note:

NOTE: ITU-T Recommendations frequently use the term "connection". ETSI has decided to use the term "bearer" instead (i.e. if this term is used in the context of a bearer for a connection-oriented bearer service).

Page 16, subclause 8.2.4

The cause values in 3.2/Q.2610 as modified by ETS 300 685 [13] are applicable

Page 23, subclause 9.5.3.2.1, item(d)

Replace the reference "5.6.7.2/Q.2931" by "5.6.7.1/Q.2931 as modified by ETS 300 443-1".

Page 35, clause 12

Add the following text:

Interaction with the CUG supplementary service:

ETS 300 770-1 [14] shall apply.

Page 36, annex A

Delete annex A. It does not form part of this ETS.

Page 37, annex B

Annex B has the status of a normative annex.

Page 37, annex C

Annex C has the status of a normative annex.

Page 46, annex D

Annex D has the status of a normative annex.

Page 51, annex E

Annex E has the status of a normative annex.

Page 53, annex F

Annex F has the status of an informative annex.

Page 85, Call-Control-N (sheet 28 of 39)

Replace "RELEASE req." by "Release req.".

Page 104, Party-Control-N (sheet 9 of 13), states PN1, PN2, PN3, PN4, PN6 and PN7

The DROP PARTY message shall only be able to be received by a Party-Control-N process in the states PN2, PN3, PN4, PN7.

Page 161, Party-Control-U (sheet 9 of 13), states PU1, PU2, PU3, PU4, PU6 and PU7

The DROP PARTY message shall only be able to be received by a Party-Control-U process in the states PU2, PU3, PU4, PU7.

Page 167, appendix I

Appendix I has the status of an informative annex.

Page 170, appendix II

Appendix II has the status of an informative annex.

Annex ZA (informative)

This annex identifies the differences between ETS 300 771-1 and EN 300 771-1 (1999). These changes are not part of the main text because they are covered by corrigendum 1 to Q.2971 (1998) which EN 300 771-1 additionally endorses.

All new text is underlined, while any deletions caused by Q.2971 corrigendum 1 are shown as strike through text.

Page 14, figure 8-1/Q.2971

After figure 8-1/Q.2971, insert a header for the codepoints table:

Table 8-15a 16/Q.2971: Endpoint reference information element

Page 15, figure 8.2/Q.2971

After figure 8-2/Q.2971, insert header for the codepoints table:

Table 8-15b 17/Q.2971: Endpoint state information element

Subclause 8.2.3, Table 8-16

Renumber Table 8-16 "Additional multiparty message types" into Table 8-18

Page 16, subclause 8.2.4

~~Insert a header for the cause value table:~~

~~Table 8-16a/Q.2971: Additional causes~~

~~Add the following row to that table:~~

~~89 Invalid endpoint reference value Not applicable DSS2 9.5.3.2.3~~

The cause values in 3.2/Q.2610 as modified by ETS 300 685 [13] are applicable

subclause 9.1.1

In subclause 9.1.1 insert following note at the end of the third paragraph:

Note – The term "negotiation" in the context of this Recommendation relates to Broadband low layer negotiation according to Annex C/Q.2931, as modified by ETS 300 443-1 [4] and ATM adaption layer parameters negotiation according to Annex F/Q.2931, as modified by ETS 300 443-1 [4] only. Other types of negotiation are outside the scope of this Recommendation.

subclause 9.1.2, 1st paragraph

In subclause 9.1.2, replace the last sentence of the first paragraph by following sentence:

The user shall send an ADD PARTY message only if the link is in the Active link state or in the Call Delivered link state and negotiation with the first leaf is not allowed.

subclause 9.1.3, 2nd paragraph

In subclause 9.1.3, replace the first sentence of the 2nd paragraph with the following sentence:

Similarly, if the network determines that a requested service is not available, the network shall send an ADD PARTY REJECT message with one of the following causes following the procedures of 9.3.2:

Subclause 9.2

Replace the title of subclause 9.2 by the following title:

Subsequent party establishment at the destination side

Subclause 9.2, 2nd paragraph

In subclause 9.2, 2nd paragraph replace the second sentence by the following sentence:

The SETUP message shall contain the Endpoint reference information element and the Broadband bearer capability information element shall indicate "point-to-multipoint" in the user plane connection configuration field.

Subclause 9.2, last two paragraphs

Replace the last two paragraphs of subclause 9.2 by the following two paragraphs:

At the terminating interface, the ADD PARTY, ADD PARTY ACKNOWLEDGE, ADD PARTY REJECT, PARTY ALERTING, DROP PARTY, and DROP PARTY ACKNOWLEDGE messages shall not be used.

At the terminating interface, the receipt of an ADD PARTY, ADD PARTY ACKNOWLEDGE, ADD PARTY REJECT, PARTY ALERTING, DROP PARTY, or DROP PARTY ACKNOWLEDGE message shall be treated as an unrecognized or unexpected message.

Subclause 9.3.3.1

Replace the text of subclause 9.3.3.1 by the following text:

In order to drop itself, the leaf shall send a RELEASE or RELEASE COMPLETE message according to the procedures of 5.4.2 and 5.4.3/Q.2931, as modified by ETS 300 443-1 [4], and shall enter the Null party state.

Subclause 9.3.3.2, 4th paragraph, 2nd bullet item

In subclause 9.3.3.2, 4th paragraph replace the text of the 2nd bullet item by the following text:

- when all other parties associated with the call are in the Drop Party Initiated, or Drop Party Received party state, the network shall initiate procedures for dropping the party along the path to the remote user, send a RELEASE message to the user with cause #31, "normal, unspecified" and enter the Null party state.

Subclause 9.3.3.2

In subclause 9.3.3.2, 4th paragraph 2nd bullet item, 5th paragraph, 6th paragraph 2nd bullet item and 7th paragraph delete "Null" from the sequence of party states at all occurrences so that only the Drop Party Initiated and Drop Party Received party state remain.

Subclause 9.3.3.2, last paragraph

In subclause 9.3.3.2, last paragraph replace the the text of the first bullet item by the following text:

- for any party in the Drop Party Initiated or Drop Party Received party state all party timers shall be stopped and the Null party state shall be entered; and

Subclause 9.3.4.2, 1st paragraph

In subclause 9.3.4.2, replace the first paragraph by the following paragraph:

Apart from the exception conditions identified in 9.3.2 and 9.5, the network shall initiate dropping a party at the root interface by sending a DROP PARTY or RELEASE message with the cause value received from the network or remote user.

Subclause 9.3.4.2

In subclause 9.3.4.2, 4th paragraph 1st bullet item, 5th paragraph, 6th paragraph 2nd bullet item and 7th paragraph delete "Null" from the sequence of party states at all occurrences so that only the Drop Party Initiated and Drop Party Received party state remain.

Subclause 9.3.4.2, 4th paragraph, 1st bullet item

In subclause 9.3.4.2, 4th paragraph replace the text of the 1st bullet item by the following text:

- when all other parties associated with the call are in the Drop Party Initiated or Drop Party Received party state, the user shall send a RELEASE message with cause #31, "normal, unspecified" and enter the Null party state; or

Subclause 9.3.4.2, last paragraph

In subclause 9.3.4.2 replace the last sentence of the last paragraph by the following sentence:

When the user receives a RELEASE message, for all parties (for this call) party timers shall be stopped and the Null party state shall be entered

Subclause 9.3.5, 2nd paragraph

In subclause 9.3.5, 2nd paragraph delete "Null" from the sequence of party states so that only the Drop Party Initiated and Drop Party Received party state remain.

Subclause 9.3.5, 2nd paragraph

In subclause 9.3.5, replace the 2nd paragraph by the following paragraph:

Similarly, upon receiving a DROP PARTY or ADD PARTY REJECT message while in the Drop Party Initiated party state, and while all parties associated with the call are in the Drop Party Initiated or Drop Party Received party state, the recipient shall stop timer T398, disconnect the bearer virtual channel, and send a RELEASE message with cause #31 'normal, unspecified'.

Subclause 9.3.6, 1st paragraph

In subclause 9.3.6, replace the first sentence of the first paragraph by the following sentence:

All parties of a call can be dropped by the root by sending a RELEASE message with an appropriate cause value according to Q.2610, as modified by ETS 300 685 [13], to the network.

Subclause 9.3.6, 2nd paragraph

In subclause 9.3.6, replace the first sentence of the 2nd paragraph by the following sentence: In order to initiate the dropping of all parties, while in the Active or Call Delivered link state, the network shall first send an ADD PARTY REJECT message with the cause value received from the network for each party in the Add Party Received party state and then shall send a RELEASE message with cause #31 'normal, unspecified'.

Subclause 9.5.3.2.3, items b), e) and f)

In subclause 9.5.3.2.3, items b), e) and f) replace all occurrences of the term

"...is received for a party in the Null party state"

by the term

"...is received by a signalling entity in the Null party state".

Subclause 9.5.4, 4th paragraph

In subclause 9.5.4, replace the last sentence of the 4th paragraph by the following sentence:

If no parties remain in the Active, Add Party Initiated, Party Alerting Received, Party Alerting Delivered or Add Party Received party state on the call for the layer 3 entity when either side receives the DROP PARTY ACKNOWLEDGE message, then the side receiving the DROP PARTY ACKNOWLEDGE shall disconnect the bearer virtual channel and send a RELEASE message with cause #31 'normal, unspecified'.

Subclause 9.5.12, 2nd paragraph, item c)

In subclause 9.5.12, 2nd paragraph, item c) replace the last sentence by the following sentence:

If no other party of the call is in the Active, Add Party Initiated, Party Alerting Received, Party Alerting Delivered or Add Party Received party states, call clearing will be initiated with a RELEASE message with cause #31 'normal, unspecified'.

Subclause 10.2.2.6

In subclause 10.2.2.6 replace the first paragraph by the following paragraph:

If timer T399 expires (i.e. the network has not yet received any response to the transmitted ADD PARTY message), then the network shall initiate party dropping procedures towards the calling user with cause #18, "no user responding" and if at least one party is remaining in the Active, Party Alerting Received or Add Party Initiated party states after dropping the party concerned, send a DROP PARTY message with cause #102 "Recovery on timer expiry" to the called user, enter the Drop Party Initiated party state for this party and start T398. If there are no remaining parties in the Active, Party Alerting Received or Add Party Initiated party states, then the network shall send a RELEASE message to the called user. The cause used in the RELEASE message is #31, "normal unspecified".

Subclause 10.3.3, 4th paragraph, 2nd bullet item

In subclause 10.3.3, 4th paragraph replace the text of the 2nd bullet item by the following text:

- when all other parties associated with the call are in the Drop Party Initiated, or Drop Party Received party state, the network shall initiate procedures for dropping the party along the path to the remote user, send a RELEASE message to the user with cause #31, "normal, unspecified" and enter the Null party state for that party.

Subclause 10.3.3

In subclause 10.3.3, 4th paragraph 2nd bullet item, 5th paragraph, 6th paragraph 2nd bullet item and 7th paragraph delete "Null" from the sequence of party states at all occurrences so that only the Drop Party Initiated and Drop Party Received party state remain.

Subclause 10.3.3, last paragraph

In subclause 10.3.3, replace the first bullet item of the last paragraph by the following bullet item:

- for any party in the Drop Party Initiated or Drop Party Received party state all party timers shall be stopped and the Null party state shall be entered;

Subclause 10.3.4

In subclause 10.3.4, 4th paragraph 1st bullet item, 5th paragraph, 6th paragraph 2nd bullet item and 7th paragraph delete "Null" from the sequence of party states at all occurrences so that only the Drop Party Initiated and Drop Party Received party state remain.

Subclause 10.3.4, 4th paragraph, 1st bullet item

In subclause 10.3.4, 4th paragraph replace the text of the 1st bullet item by the following text:

- when all other parties associated with the call are in the Drop Party Initiated or Drop Party Received party state, the user shall send a RELEASE message to the network with cause #31, "normal, unspecified" and enter the Null party state ; or

Subclause 10.3.4, last paragraph

In subclause 10.3.4, replace the first bullet item of the last paragraph by the following bullet item:

- for any party in the Drop Party Initiated or Drop Party Received party state all party timers shall be stopped and the Null party state shall be entered;

Subclause 10.3.5

In subclause 10.3.5, 2nd paragraph delete "Null" from the sequence of party states so that only the Drop Party Initiated and Drop Party Received party state remain.

Subclause 10.3.6, 3rd paragraph

In subclause 10.3.6, replace the first sentence of the third paragraph by the following sentence:

The originating network, while in the Active or Call Delivered link state, or the destination user, while in the Call Received, Connect Request or Active link state may drop all parties on the local interface by first sending an ADD PARTY REJECT message for each party in the Add Party Received party state and then sending a RELEASE message with cause #31 'normal, unspecified'.

Furthermore, insert after the first sentence of the third paragraph following new sentence:

In the ADD PARTY REJECT message the destination user shall include an appropriate cause value according to Q.2610 as modified by ETS 300 685 [13] and the originating network shall include the cause value received from the network, respectively.

Annex F, SDL Process Call-Control-N, Sheet 24 of 39

The SDL Process Call-Control-N, Sheet 24 of 39 has been modified

Annex F, SDL Process Call-Control-U, Sheet 29 of 39

When CS=0 send a Release-conf. Primitive before process is terminated.

Annex F, SDL Process Call-Control-U, Sheet 30 of 39

When CS=0 send a Release-conf. Primitive before process is terminated.

Appendix 1

figure "Party Dropping"

Figure "Party Dropping" left side:

"drop party ind" is changed to "drop party req"

Figure "Party Dropping" right side:

For network and user the party state "P5/P6" terminates on transmission of RELEASE, delete "P5/P6" move "X" (i.e. party process termination) up to transmission/receipt of RELEASE, and remove the "Release resp".

figure "Party Leaves Call"

Figure "Party Leaves Call", right side:

Delete "P5", move "X" (i.e. party process termination) up to transmission/receipt of RELEASE, delete RELEASE COMPL to "party process", change "Release compl ind" to "Release comp" and it goes only to AP.

History

| Document history | | |
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