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FINAL DRAFT pr **ETS 300 771-1**

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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]

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Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

This ETS is part 1 of a multi-part standard covering the specification of the Broadband Integrated Services Digital Network (B-ISDN) user-network interface layer 3 protocol for point-to-multipoint call/bearer control of Digital Subscriber Signalling System No. two (DSS2) 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: "TSS&TP specification for the network";

Part 6: "ATS and partial PIXIT proforma specification for the network".

NOTE: The final structure of the parts containing the test specifications is currently under

study.

Proposed transposition da	ites
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Date of latest announcement of this ETS (doa): 3 months after ETSI publication

Date of latest publication of new National Standard

or endorsement of this ETS (dop/e): 6 months after doa

Date of withdrawal of any conflicting National Standard (dow): 6 months after doa

Endorsement notice

The text of ITU-T Recommendation Q.2971 (1995) was approved by ETSI as an ETS with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strikeout are used to highlight detailed modifications where necessary.

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

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Page 1, clause 1

Replace clause 1 by:

1 Scope

This European Telecommunication Standard (ETS) 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 telecommunication service (see CCITT Recommendation I.130 [1]).

In addition, this ETS 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 this ETS, however, some procedures are applicable only at the T_B reference point.

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

Further ETSs (or further parts of this ETS) provide the method of testing and detailed application specific requirements to determine conformance to this ETS.

This ETS is applicable to equipment supporting connection-oriented point-to-multipoint single connection 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.

The provision of this service to the leaves requires the support of the protocol for basic point-to-point call/bearer connection as defined in ETS 300 443-1 [4].

Page 1, clause 2

Replace clause 2 by:

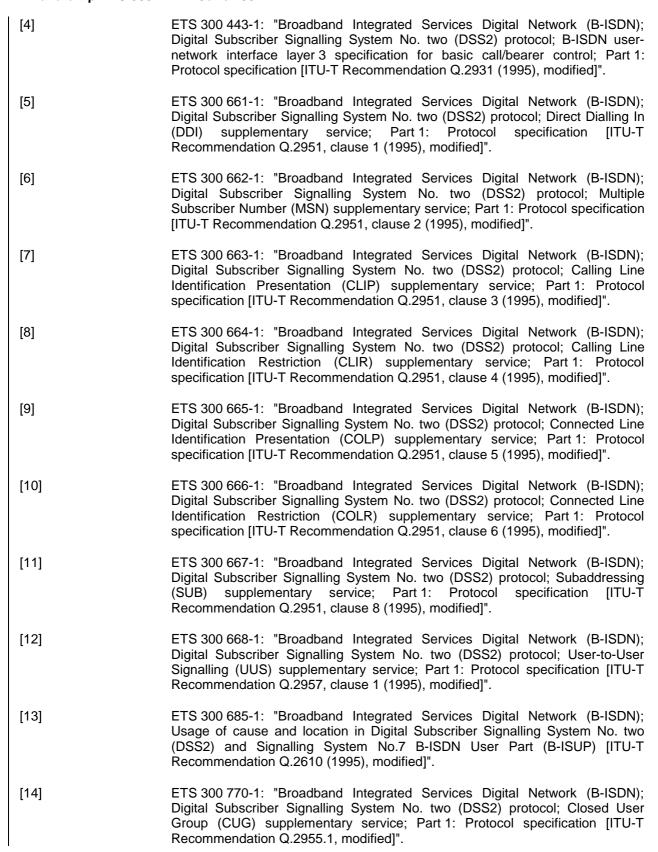
2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]	CCITT Recommendation I.130 (1988):	"Method	for	the	characterization	of
	telecommunication services supported	by an ISE	N an	d ne	etwork capabilities	of a
	an ISDN".					

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

[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]".



Throughout the text of ITU-T Recommendation Q.2971

Replace references as shown in the following table.

Reference in ITU-T	Modified reference
Recommendation Q.2971	
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 3, subclause 5.2, first paragraph

Replace "(see 1.5/Q.2931)" by "(see 1.3/Q.2931)".

Page 3, subclause 5.3, fourth paragraph

Modify the fourth paragraph as follows:

Multiple add party requests pending at the same time are allowed (e.g. the root need to wait for a response related to one add party request before issueing the next one).

Page 10, table 8-10/Q.2971, notes 1, 2 and 3, third sentence, respectively

Replace the third sentence in notes 1 to 3, respectively, by:

Must be the same as the one negotiated during the initial call setup, but is not checked by the network.

Page 11, subclause 8.2.1, first paragraph, first sentence

Replace the first sentence by:

The purpose of the Endpoint reference information element is to identify the individual endpoints of a point-to-multipoint call to which the particular message applies and can be used to indicate that <u>parties other than the first party</u> cannot negotiate (see 9.1.1).

Page 14, figure 8-1/Q.2971, octets 6 and 6.1

Replace "Endpoint reference identifier value" by "Endpoint reference value".

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Page 14, figure 8-1/Q.2971

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

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

In the two sentences below that table, replace "reference identifier" by "reference".

Page 15, figure 8.2/Q.2971, octet 5

Replace "Endpoint reference party state" by "Endpoint party state".

Page 15, figure 8.2/Q.2971

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

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

In first line of that table, replace "reference party state" by "party state".

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 enpoint reference value	Not applicable	DSS2	95323
03	invalid cripoliti reference value	1 vot applicable	D332	J.J.J.Z.J

Page 20, subclause 9.3.3.2, first paragraph

Delete "9.3.2 and".

Page 21, subclause 9.3.3.2, note 2

Delete note 2.

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".

Page 24, subclause 9.5.3.2.3, item a)

Insert "CALL PROCEEDING, ALERTING, CONNECT, " after "except SETUP, ".

Page 27, subclause 9.5.10, note

Move the note to the end of item b).

Page 31, subclause 10.3.2

Insert the following item after item b):

c) On receipt of an ADD PARTY REJECT message, the recipient shall enter the Null party state. If all parties associated with the call are in the Null, Drop Party Initiated, or Drop Party Received party state, a RELEASE message shall be returned with cause #31 "normal, unspecified".

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Page 35, clause 12

Add the following text:

Interaction with the CUG supplementary service:

ETS 300 770-1 [14] shall apply.

Page 35, table 13-1/Q.2971

Row T397, column "Cause for start", replace "ADD PARTY ALERTING" by "PARTY ALERTING".

Page 36, table 13-2/Q.2971

Row T397, column "Cause for start", replace "ADD PARTY ALERTING" by "PARTY ALERTING".

Row T397, column "Normal Stop", insert "CONNECT or".

Row T399, column "Normal Stop", insert "CONNECT, ".

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 86, Call-Control-N (sheet 29 of 39), state N11

At the "yes" branch of the "CS=0" decision box, the Release conf. primitive shall be sent to the AP process before the Call-Control-N process is terminated.

Page 88, Call-Control-N (sheet 31 of 39), state N12

At the "yes" branch of the "CS=0" decision box, the Release conf. primitive shall be sent to the AP process before the Call-Control-N process is terminated.

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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 142, Call-Control-U (sheet 29 of 39), state U11

At the "yes" branch of the "CS=0" decision box, the Release conf. primitive shall be sent to the AP process before the Call-Control-U process is terminated.

Page 143, Call-Control-U (sheet 30 of 39), state U12

At the "yes" branch of the "CS=0" decision box, the Release conf. primitive shall be sent to the AP process before the Call-Control-U process is terminated.

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.

History

Document history					
October 1996	Public Enquiry	PE 116:	1996-10-21 to 1997-02-14		
June 1997	Vote	V 9735:	1997-06-17 to 1997-08-29		