

Final draft **ETSI EN 301 487-1** V1.1.1 (2000-06)

European Standard (Telecommunications series)

**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling No. two (DSS2) protocol;
Switched virtual path capability;
Part 1: Protocol Specification**

[ITU-T Recommendation Q.2934 (1999), modified]



Reference

DEN/SPAN-05175-1

Keywords

B-ISDN, DSS2, protocol

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Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

This European Standard (Telecommunication series) has been produced by the ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the Voting phase of the ETSI standards Two-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 No. two (DSS2) protocol; Switched virtual path capability, as described below:

- Part 1:** "**Protocol specification [ITU-T Recommendation Q.2934 (1998), modified]**";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specifications for the user";
- Part 4: "Abstract test Suite (ATS) and partial Protocol Implementation eXtra Information for the Testing (PIXIT) proforma specification for the user";
- Part 5: "Test Suite Structure and Test Purpose (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 element of ITU-T Recommendation Q.2934 (1998) apply, with the following modifications:

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

Clause 1

Replace clause 1 by:

1 Scope

The present document specifies the stage three of: Signalling protocol for establishing, maintaining and clearing switched virtual path capability for the Broadband-Integrated Services Digital Network (B-ISDN) at the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [33]) 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 [32]).

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 1: 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 fundamental type of service. It forms the basis on which supplementary services may be added.

NOTE 2: Specific requirements of individual B-ISDN connection-oriented basic telecommunication services are not covered by the present document.

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.

The provision of this service requires the support of the protocol for the basic point-to-point call/bearer connections as defined in the EN 300 443-1 [18], and the Additional Traffic Capabilities defined in the EN 301 068 series [19].

Subclause 2

Insert the following references at the end of subclause 2:

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.

- [16] ITU-T Recommendation I.371 (1995): "Traffic control and congestion control in B-ISDN".
- [17] ITU-T Recommendation I.356 (1996): "B-ISDN ATM layer cell transfer performance".
- [18] EN 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]".
- [19] EN 301 068 (all parts): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication".
- [20] EN 301 067-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Negotiation during call/connection establishment phase; Part 1: Protocol specification [ITU-T Recommendation Q.2962 (1996), modified]".
- [21] EN 301 003-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner; Part 1: Protocol specification [ITU-T Recommendation Q.2963.1 (1996), modified]".
- [22] EN 301 276-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Modification procedures for sustainable cell rate parameters; Part 1: Protocol specification [ITU-T Recommendation Q.2963.2 (1997), modified]".
- [23] EN 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]".
- [24] EN 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]".
- [25] EN 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]".

- [26] EN 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]".
- [27] EN 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]".
- [28] EN 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]".
- [29] EN 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]".
- [30] 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]".
- [31] 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]".
- [32] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [33] CCITT Recommendation I.413: "B-ISDN user-network interface".
- [34] EN 301 485-1: "Broadband Integrated Services Network (B-ISDN); Digital Subscriber Signalling No. two (DSS2) protocol; Support of ATM end system addressing format by Number identification supplementary services; Part 1: Protocol Specification [ITU-T Recommendation Q.2951.9 (1999) modified]".
- [35] EN 301 486-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM traffic descriptor modification with negotiation by the connection owner; Part 1: Protocol specification [endorsement of ITU-T Recommendation Q.2963.3]".

Throughout the text of ITU-T Recommendation Q.2934

Replace references as shown in the following table.

Reference in ITU-T Recommendation Q.2934	Modified reference
ITU-T Recommendation Q.2931 [1]	ITU-T Recommendation Q.2931 as modified by ETS 300 443-1 [18]
ITU-T Recommendation Q.2961.1 [2]	ITU-T Recommendation Q.2961.1 as modified by EN 301 068-1 [19]
ITU-T Recommendation Q.2961.2 [3]	ITU-T Recommendation Q.2961.2 as modified by EN 301 068-1 [19]
ITU-T Recommendation Q.2961.3 [4]	ITU-T Recommendation Q.2961.3 as modified by EN 301 068-1 [19]
ITU-T Recommendation Q.2961.4 [5]	ITU-T Recommendation Q.2961.4 as modified by EN 301 068-1 [19]
ITU-T Recommendation Q.2961.6 [6]	ITU-T Recommendation Q.2961.6 as modified by EN 301 068-1 [19]
ITU-T Recommendation Q.2962.1 [7]	ITU-T Recommendation Q.2962.1 as modified by EN 301 067-1 [20]
ITU-T Recommendation Q.2963.1 [8]	ITU-T Recommendation Q.2963.1 as modified by EN 301 003-1 [21]
ITU-T Recommendation Q.2963.2 [9]	ITU-T Recommendation Q.2963.2 as modified by EN 301 276-1 [22]
ITU-T Recommendation Q.2963.3 [10]	ITU-T Recommendation Q.2963.3 as modified by EN 301 486-1 [35]
ITU-T Recommendation Q.2951 [11]	ITU-T Recommendation Q.2951 as modified by EN 300 661-1 [23] to EN 300 666-1 [28] and EN 301 485-1 [36] (AESA)
ITU-T Recommendation Q.2955 [12]	ITU-T Recommendation Q.2955 as modified by EN 300 770-1 [30]
ITU-T Recommendation Q.2957 [13]	ITU-T Recommendation Q.2957 as modified by EN 300 668-1 [31]

History

Document history			
V1.1.1	December 1999	Public Enquiry	PE 200016: 1999-12-22 to 2000-04-21
V1.1.1	June 2000	Vote	V 20000825: 2000-06-26 to 2000-08-25