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Širokopasovno digitalno omrežje z integriranimi storitvami (B-ISDN) - Protokol digitalne naročniške signalizacije št. 2 (DSS2) - Specifikacija tretje plasti vmesnika uporabnik-omrežje B-ISDN za krmiljenje osnovnega klica/nosilca - 1. del: Specifikacija protokola [priporočilo ITU-T Q.2931 (1995), spremenjeno]

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]

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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 basic call/bearer control; Part 1: Protocol specification

[ITU-T Recommendation Q.2931 (1995), modified]

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 1 of a multi-part deliverable covering the specification of 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 basic call/bearer control, as described below:

Part 1: "Protocol specification [ITU-T Recommendation Q.2931 (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 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".

National transposition dates	
Date of adoption of this EN:	23 February 2001
Date of latest announcement of this EN (doa):	31 May 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 November 2001
Date of withdrawal of any conflicting National Standard (dow):	30 November 2001

Endorsement notice

The elements of ITU-T Recommendation Q.2931 (1995) and its amendments 1 [91], 2 [92], 3 [93] and 4 [94] 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 (excluding clauses 1.1 to 1.3) by:

1 Scope

The present document specifies the stage three of on-demand connection-oriented 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) 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 ITU-T Recommendation I.130 [84]).

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.

The present document also specifies the particular features required to provide 64 kbit/s based circuit-mode ISDN services in B-ISDN and to support access interworking between B-ISDN and N-ISDN.

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.

Clause 1.1

Replace the text of clause1.1 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.

NOTE: Reference numbers less than [84] appear in the endorsed ITU-T recommendation.

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

[85] ETSI ETS 300 402-2: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

[86] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

[87] ETSI ETS 300 436-1: "Broadband Integrated Services Digital Network (B-ISDN); Signalling ATM Adaptation Layer (SAAL); Service Specific Connection Oriented Protocol (SSCOP); Part 1: Protocol specification [ITU-T Recommendation Q.2110 (1995), modified]".

[88] ETSI 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]".

[89] ETSI ETS 300 486-1: "Broadband Integrated Services Digital Network (B-ISDN); Meta-signalling protocol; Part 1: Protocol specification [ITU-T Recommendation Q.2120 (1995), modified]".

[90] ETSI EN 301 068-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 1: Protocol specification [ITU-T Recommendations Q.2961.1 (1995), Q.2961.2 (1997), Q.2961.3 (1997), Q.2961.4 (1997), modified]".

[91] Amendment 1 to ITU-T Recommendation Q.2931 (1997): "Digital Subscriber Signalling System No. 2 - User-network interface (UNI) layer 3 specification for basic call/connection control - Amendment 1"

[92] Amendment 2 Corrigendum 1 (2000) to ITU-T Recommendation Q.2931: "Digital Subscriber Signalling System No. 2 - User-network interface (UNI) layer 3 specification for basic call/connection control".

[93] Amendment 3 to ITU-T Recommendation Q.2931 (1999): "User-network interface (UNI) layer 3 specification for basic call/connection control".

[94] Amendment 4 (1999) to ITU-T Recommendation Q.2931: "Digital Subscriber Signalling System No. 2 - User-network interface (UNI) layer 3 specification for basic call/connection control"

[95] ETSI EN 301 815-1 (V1.1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Quality of Service Class and Parameters indication at call/connection establishment; Part 1: Protocol specification [ITU-T Recommendations Q.2965.1 (1999) and Q.2965.2 (1999), modified]".

Throughout the text of ITU-T Recommendation Q.2931 and its amendments 1, 2, 3 and 4:

Replace references as shown in the following table.

Reference in ITU-T Recommendation Q.2931	Modified reference
ITU-T Recommendation Q.921	ITU-T Recommendation Q.921 as modified by ETS 300 402-2 [85]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by EN 300 403-1 [86]
ITU-T Recommendation Q.2110	ITU-T Recommendation Q.2110 as modified by ETS 300 436-1 [87]
ITU-T Recommendation Q.2120	ITU-T Recommendation Q.2120 as modified by ETS 300 486-1 [89]
ITU-T Recommendation Q.2130	ITU-T Recommendation Q.2130 as modified by ETS 300 437-1 [88]
ITU-T Recommendation Q.2961.2	ITU-T Recommendation Q.2961.2 as modified by EN 301 068-1 [90]
ITU-T Recommendations Q.2965.1 and Q.2965.2	ITU-T Recommendations Q.2965.1 and Q.2965.2 as modified by EN 301 815-1 [95]

3 Definitions and abbreviations

Definitions and abbreviations are provided in clauses J.1 and J.2, respectively.

Table 3-8/Q.2931, note 5

Add the following text to note 5:

The maximum length of this information element is 25 octets.

Table 3-8/Q.2931, note 7

Add the following text to note 7:

Not included in the network-to-user direction for basic call control, but may be included for some supplementary services. The maximum length of this information element is 26 octets.

Table 3-8/Q.2931, note 8

Add the following text to note 8:

Not included in the network-to-user direction for basic call control, but may be included for some supplementary services.

Table 3-8/Q.2931, note 13

Replace note 13 by:

NOTE 13: It is mandatory for the user to include the Broadband sending complete information element when *en bloc* sending procedures are used. On its receipt, the network shall apply the *en bloc* sending procedure.

It is mandatory for the network to include the Broadband sending complete information element. If the Broadband sending complete information element is not included, the called user shall not apply the missing mandatory element error handling procedures.

Table 3-19/Q.2931, note 2

Add the following text to note 2:

The maximum length of this information element is 25 octets.

Table 3-19/Q.2931, note 4

Add the following text to note 4:

Not included in the network-to-user direction for basic call control, but may be included for some supplementary services. The maximum length of this information element is 26 octets.

Table 3-19/Q.2931, note 5

Add the following text to note 5:

Not included in the network-to-user direction for basic call control, but may be included for some supplementary services.

Clause 4.5.6, second paragraph

Insert the following note after the second paragraph:

NOTE: When the user requires the use of end-to-end OAM F5 flows, it is recommended that this is declared explicitly within the OAM traffic descriptor information element (see clause 4.5.24) in order to enable the network to identify the actual user plane information rates. Currently this is needed when the user expects the separate policing and shaping functions (when applied as a network option) of the user plane information flow and of the end-to-end user originated OAM F5 flow to be performed by the network. Other cases may be identified in the future.

Clause 4.5.9, third paragraph:

Insert after the third paragraph:

Octet groups 5 (layer 1 id), 6 (layer 2 id) and 7 (layer 3 id) of the Broadband low layer information element are not position independent, but if present at all, shall be sent in the order as specified in figure 4-16/Q.2931.

Clause 4.5.11, third paragraph

Replace the third paragraph by:

The maximum length of this information element is 25 octets.

Figure 4-18/Q.2931, note 2

Delete note 2 related to "NSAP address octets". This field is not supported.

Table 4-12/Q.2931, note 2

Replace note 2 by:

NOTE 2: The type of number "unknown" is used when the user or the network have no knowledge of the type of number (e.g. international number, national number, etc.). In this case, the number digits field is organized according to the network dialling plan; e.g. prefix or escape digits might be present.

Table 4-12/Q.2931, "Addressing/numbering plan (octet 5)"

Change codepoint "0 0 1 0" to "reserved" and delete the related note 9.

Clause 4.5.13

Replace the second sentence by:

The maximum length of this information element is 26 octets.