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European Standard (Telecommunications series)

**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**

[ITU-T Recommendation Q.2963.3, modified]



Reference

DEN/SPAN-05202-1

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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 EN covering the Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM Traffic Descriptor characteristics with Negotiation by the Connection Owner, as described below:

- Part 1:** "Protocol specification [ITU-T Recommendation Q.2963.3, modified]";
- Part 2: "Protocol Implementation Conformance Statement (PICS) Proforma";
- Part 3: "Test Suite Structure and Test Purpose (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:	21 April 2000
Date of latest announcement of this EN (doa):	31 July 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2001
Date of withdrawal of any conflicting National Standard (dow):	31 January 2001

Endorsement notice

The element of ITU-T Recommendation Q.2963.3 (1998) apply, with the following modifications:

Clause 1

Replace clause 1 by:

1 Scope

This first part of EN 301 486 specifies the signalling protocol for ATM Traffic Descriptor modification with negotiation 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 Recommendation I.413 [1]) by means of the Digital Subscriber Signalling System No. 2 (DSS2). The present document extends the ATM Traffic Descriptor modification capability specified in EN 301 276-1 [11] to support the traffic parameter negotiation which is equivalent to that specified in EN 301 067-1 [9].

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.

The capability described in the present document enables the connection owner to modify the ATM Traffic Descriptor with negotiation for call/connections that have already been established as specified in EN 301 068-1 [8]. The present document specifies the procedure of the modification with negotiation of PCR, SCR and MBS using either an Alternative ATM traffic descriptor information element or a Minimum acceptable ATM traffic descriptor information element.

ATM Traffic Descriptor modification with negotiation is applicable to all connection oriented Telecommunication services that are based on single point-to-point calls/connections, however, modification is not applicable to emulated N-ISDN services. The ATM Traffic Descriptor modification with negotiation for point-to-multipoint calls/connections is outside the scope of the present document.

The present document is applicable to equipment, supporting ATM Traffic Descriptor modification with negotiation, to be attached at either side of a T_B reference point or coincident S_B and T_B reference point when used as an access to the public B-ISDN.

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

The provision of this service requires the support of the protocol for the basic point-to-point call/bearer connections as defined in the ETS 300 443-1 [7].

clause 2, first paragraph

Replace the first paragraph of clause 2 by:

References may be made to:

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.

- [7] ETSI 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]".
- [8] 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 to Q.2961.4 (1997), modified]".
- [9] ETSI 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]".
- [10] ETSI 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]".
- [11] ETSI 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]".

Throughout the text of ITU-T Recommendation Q.2963.1

Replace references as shown in the following table:

Reference in ITU-T Recommendation Q.2963.1	Modified reference
ITU-T Recommendation Q.2931 [2]	ITU-T Recommendation Q.2931 as modified by EN 300 443-1 [7]
ITU-T Recommendation Q.2961.1 [3]	ITU-T Recommendation Q.2961.1 as modified by EN 301 068-1 [8]
ITU-T Recommendation Q.2962 [4]	ITU-T Recommendation Q.2962 as modified by EN 301 067-1 [9]
ITU-T Recommendation Q.2963.1 [5]	ITU-T Recommendation Q.2963.1 as modified by EN 301 003-1 [10]
ITU-T Recommendation Q.2963.2 [6]	ITU-T Recommendation Q.2963.2 as modified by EN 301 276-1 [11]

subclause 5.1

Insert the following paragraph at the end of subclause 5.1:

Modifications shall not be requested for emulated N-ISDN services, however, the network shall reject any request.

subclause 6.1

Insert the following paragraph at the end of subclause 6.1:

The calling user is conformant to the procedures described in the present document if it supports the traffic parameter negotiation procedure in their modification by using an Alternative ATM traffic descriptor or a minimum acceptable ATM traffic descriptor. The network shall support both to be conformant to the present document.

History

Document history		
V1.1.3	December 1999	One-step Approval Procedure OAP 200016: 1999-12-22 to 2000-04-21
V1.1.3	April 2000	Publication