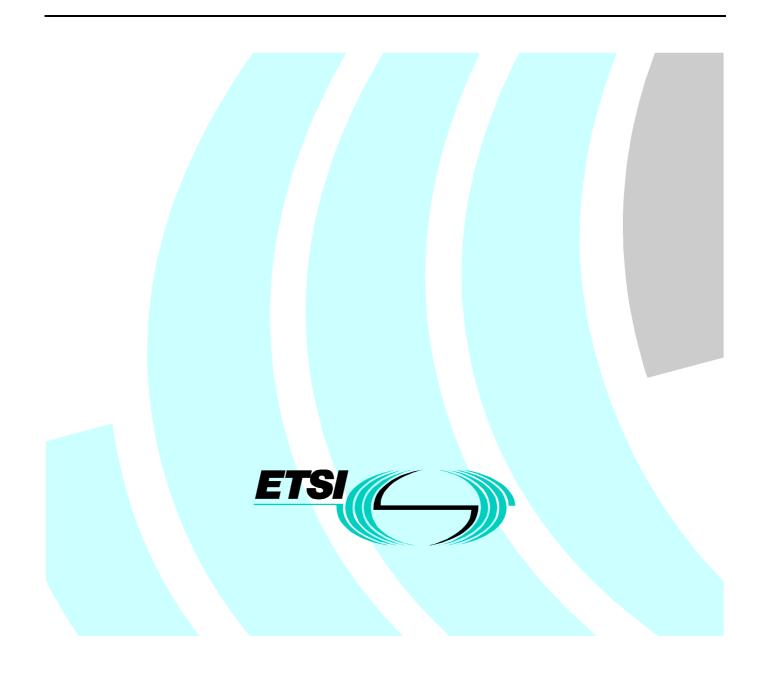
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European Standard (Telecommunications series)

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characterictics; ATM traffic descriptor modification with negotiation by the connection owner; Part 1: Protocol specification

[endorsement of ITU-T Recommendation Q.2963.3]



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Keywords

ATM, B-ISDN, broadband, DSS2, layer 3, protocol, UNI

ETSI

Postal address F-06921 Sophia Antipolis Cedex - FRANCE

Office address

650 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

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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 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; Connection characteristics; ATM Traffic Descriptor characteristics with Negotiation by the Connection Owner, as described below:

Part 1: "Protocol specification [endorsement of ITU-T Recommendation Q.2963.3]";

- 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".

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.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].

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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].

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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] 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] 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] 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] 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] 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	Modified reference	
ITU-T Recommendation Q.2963.1		
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 must 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	

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