

# ETSI EN 301 815-1 V1.1.1 (2000-12)

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*European Standard (Telecommunications series)*

**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]

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**Reference**

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**Keywords**

B-ISDN, DSS2, quality

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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 standard covering the Digital Subscriber Signalling System No. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network (B-ISDN) to support Quality of Service Class and parameters indication at call/connection establishment, as described below:

**Part 1:** "**Protocol specification [ITU-T Recommendations Q.2965.1 (1999) and Q.2965.2 (1999), modified]**";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification".

<b>National transposition dates</b>	
Date of adoption of this EN:	24 November 2000
Date of latest announcement of this EN (doa):	28 February 2001
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Date of withdrawal of any conflicting National Standard (dow):	31 August 2001

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## Endorsement notice

The elements of ITU-T Recommendation Q.2965.1 (1999) and its Amendment 1 (2000) and ITU-T Recommendation Q.2965.2 (2000) apply, with the modifications identified below.

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## Modifications to ITU-T Recommendation Q.2965.1

### Clause 1 (Scope)

Replace text with:

The present first part specifies the stage three of the Quality of Service (QoS) Class indication during call/connection establishment phase service for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided by European public telecommunications operators at the  $T_B$  reference point or coincident  $S_B$  and  $T_B$  reference point (as defined in ITU-T Recommendation I.413 [10]) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol. Stage three identifies the protocol and procedures and switching functions needed to support a telecommunication service.

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 present document does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not a B-ISDN.

The present document specifies the signalling protocol to indicate QoS Classes beyond those that are already specified in ITU-T Recommendation Q.2931 [2] as modified by EN 300 443-1 [11], for basic call/connection control. The capability described in the present document is also applicable to indicate the QoS Class and QoS parameters for the first party of a point-to-multipoint call/connections as specified in ITU-T Recommendation Q.2971 [3] as modified by EN 300 771-1 [12]. The capabilities in the present document are only applicable during the call/connection establishment phase.

Further parts of the present document specify the method of testing required to identify conformance to the present document.

The present document is applicable to equipment, supporting QoS Class and QoS Parameters indication during call/connection establishment phase, 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.

The provision of these capabilities requires the support of the protocol for basic point-to-point call/bearer connection control as defined in EN 300 443-1 [11].

### Clause 2 (Normative references), first paragraph

Replace the first paragraph with:

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Clause 2, end

Add the following references at the end of clause 2:

- [11] ETSI EN 300 443-1 (V1.3): "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]".
- [12] ETSI EN 300 771-1 (V2.0): "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]".
- [13] ETSI EN 301 068-1 (V1.2): "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- Recommendations Q.2961.1 (1995), Q.2961.2 (1997), Q.2961.3 (1997), Q.2961.4 (1997) and Q.2961.6 (1997), modified]".
- [14] ETSI EN 301 487-1 (V1.1): "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]".
- [15] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".

Throughout the text of ITU-T Recommendation Q.2965.1 and Amendment 1

Replace references as shown in the following table.

Reference in ITU-T Recommendation Q.2965.2	Modified reference
ITU-T Recommendation Q.2931 [2]	ITU-T Recommendation Q.2931 as modified by EN 300 443-1 [11]
ITU-T Recommendation Q.2971 [3]	ITU-T Recommendation Q.2971 as modified by ETS 300 771-1 [12]
ITU-T Recommendation Q.2961.2 [4]	ITU-T Recommendation Q.2961.2 as modified by EN 301 068-1 [13]
ITU-T Recommendation Q.2961.3 [6]	ITU-T Recommendation Q.2961.3 as modified by EN 301 068-1 [13]
ITU-T Recommendation Q.2961.4 [7]	ITU-T Recommendation Q.2961.4 as modified by EN 301 068-1 [13]
ITU-T Recommendation Q.2934 [9]	ITU-T Recommendation Q.2934 as modified by EN 301 487-1 [14]

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## Modifications to ITU-T Recommendation Q.2965.2

### Clause 1 (Scope)

Replace text with:

The present first part specifies the stage three of the Quality of Service (QoS) Parameters indication during call/connection establishment phase service for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided by European public telecommunications operators at the  $T_B$  reference point or coincident  $S_B$  and  $T_B$  reference point (as defined in ITU-T Recommendation I.413 [1]) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol. Stage three identifies the protocol and procedures and switching functions needed to support a telecommunication service.

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 present document does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not a B-ISDN.

The present document specifies the signalling protocol to indicate QoS Classes beyond those that are already specified in ITU-T Recommendation Q.2931 [4] as modified by EN 300 443-1 [11], for basic call/connection control. The capability described in the present document is also applicable to indicate the individual QoS parameters for the first party of a point-to-multipoint call/connections as specified in ITU-T Recommendation Q.2971 [5] as modified by EN 300 771-1 [22]. The capabilities in the present document are only applicable during the call/connection establishment phase.

Further parts of the present document specify the method of testing required to identify conformance to the present document.

The present document is applicable to equipment, supporting QoS parameters indication during call/connection establishment phase, 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.

The provision of these capabilities requires the support of the protocol for basic point-to-point call/bearer connection control as defined in EN 300 443-1 [21].

### Clause 2 (Normative references), first paragraph

Replace the first paragraph with:

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

### Clause 2, end

Add the following references at the end of clause 2:

- [21] ETSI EN 300 443-1 (V1.3): "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]".

- [22] ETSI EN 300 771-1 (V2.0): "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]".
- [23] ETSI EN 301 068-1 (V1.2): "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]".
- [24] ETSI EN 301 487-1 (V1.1): "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]".
- [25] ETSI ETS 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 Recommendation Q.2951 clause 1 (1995), modified]".
- [26] ETSI EN 301 668-1 (V1.1): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Part 1: Protocol specification for Camel Phase 2".
- [27] ETSI 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]".
- [28] ETSI EN 301 067-1 (V1.1): "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]".
- [29] ETSI EN 301 003-1 (V1.1): "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]".
- [30] ETSI EN 301 276-1 (V1.1): "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]".
- [31] ETSI EN 301 486-1 (V1.1): "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 [ITU-T Recommendation Q.2963.3, modified]".



Throughout the text of ITU-T Recommendation Q.2965.2

Replace references as shown in the following table.

<b>Reference in ITU-T Recommendation Q.2965.2</b>	<b>Modified reference</b>
ITU-T Recommendation Q.2931 [4]	ITU-T Recommendation Q.2931 as modified by EN 300 443-1 [21]
ITU-T Recommendation Q.2971 [5]	ITU-T Recommendation Q.2971 as modified by ETS 300 771-1 [22]
ITU-T Recommendation Q.2961.1 [7]	ITU-T Recommendation Q.2961.1 as modified by EN 301 068-1 [23]
ITU-T Recommendation Q.2961.2 [8]	ITU-T Recommendation Q.2961.2 as modified by EN 301 068-1 [23]
ITU-T Recommendation Q.2961.3 [9]	ITU-T Recommendation Q.2961.3 as modified by EN 301 068-1 [23]
ITU-T Recommendation Q.2961.4 [10]	ITU-T Recommendation Q.2961.4 as modified by EN 301 068-1 [23]
ITU-T Recommendation Q.2934 [12]	ITU-T Recommendation Q.2934 as modified by EN 301 487-1 [24]
ITU-T Recommendation Q.2951 [13]	ITU-T Recommendation Q.2951 as modified by EN 300 661-1 [25]
ITU-T Recommendation Q.2957.1 [14]	ITU-T Recommendation Q.2957.1 as modified by EN 301 668-1 [26]
ITU-T Recommendation Q.2955.1 [15]	ITU-T Recommendation Q.2955.1 as modified by ETS 300 770-1 [27]
ITU-T Recommendation Q.2962 [16]	ITU-T Recommendation Q.2962 as modified by EN 301 067-1 [28]
ITU-T Recommendation Q.2963.1 [17]	ITU-T Recommendation Q.2963.1 as modified by EN 301 003-1 [29]
ITU-T Recommendation Q.2963.2 [18]	ITU-T Recommendation Q.2963.2 as modified by EN 301 276-1 [30]
ITU-T Recommendation Q.2963.3 [19]	ITU-T Recommendation Q.2963.3 as modified by EN 301 486-1 [31]

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## History

<b>Document history</b>		
V1.1.1	July 2000	One-step Approval Procedure OAP 20001124: 2000-07-26 to 2000-11-24
V1.1.1	December 2000	Publication