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TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2931 B

(12/2000)

SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for
access signalling

**Broadband integrated services digital network
(B-ISDN) – Digital subscriber signalling system
No. 2 (DSS2) – User-network interface (UNI)
layer 3 specification for basic call/connection
control: Protocol implementation conformance
statement (PICS) proforma**

ITU-T Recommendation Q.2931 B

(Formerly CCITT Recommendation)

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For further details, please refer to the list of ITU-T Recommendations.

ITU-T Recommendation Q.2931 B

Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Protocol implementation conformance statement (PICS) proforma

Summary

This Recommendation specifies the Protocol Implementation Conformance Statement (PICS) proforma for the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T I.413 [2]) of implementations conforming to the procedures for the support of point-to-point release 1 switched virtual channel connections between the calling party and the called party of the Digital Subscriber Signalling System No. 2 (DSS2) protocol for the Broadband Integrated Services Digital Network (B-ISDN), ITU-T Q.2931 [1].

Other Recommendations of the Q.2931 family specify Test Suite Structure and Test Purposes (TSS & TP) and Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this Recommendation.

NOTE – This Recommendation related to protocol conformance is published only in English; it is based on an external SDO's standard published in English.

Source

ITU-T Recommendation Q.2931 B was prepared by ITU-T Study Group 11 (2001-2004) and approved under the WTSA Resolution 1 procedure on 6 December 2000.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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ITU-T Recommendation Q.2931 B

Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Protocol implementation conformance statement (PICS) proforma

1 Scope

This Recommendation specifies the Protocol Implementation Conformance Statement (PICS) proforma for the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T I.413 [2]) of implementations conforming to the procedures for the support of point-to-point release 1 switched virtual channel connections between the calling party and the called party of the Digital Subscriber Signalling System No. 2 (DSS2) protocol for the Broadband Integrated Services Digital Network (B-ISDN), ITU-T Q.2931 [1].

Other Recommendations of the Q.2931 family specify Test Suite Structure and Test Purposes (TSS & TP) and Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this Recommendation.

This Recommendation is applicable to equipment, supporting point-to-point B-ISDN release 1 calls/connections, 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.

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given protocol. Such a statement is called an Implementation Conformance Statement (ICS). An ICS stating what capabilities and options have been implemented for a particular protocol is called a protocol ICS. This is commonly abbreviated to "PICS".

The supplier of a protocol implementation that is claimed to conform to ITU-T Q.2931 [1] is required to complete a copy of the PICS proforma provided in Annex A of this Recommendation.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] ITU-T Q.2931 (1995), *Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control*.
- [2] ITU-T I.413 (1993), *B-ISDN user-network interface*.
- [3] ETSI EN 300 443-2 V1.2.3 (1999), *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 2: Protocol Implementation Conformance Statement (PICS) proforma specification*.
- [4] ITU-T Q.2961 B (2000), *Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Protocol implementation conformance statement (PICS) proforma*.

- [5] ITU-T Q.2965.1 B (2000), *Digital subscriber signalling system No. 2 – Support of Quality of Service classes: Protocol implementation conformance statement (PICS) proforma.*
- [6] ITU-T Q.2965.2 B (2000), *Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters: Protocol implementation conformance statement (PICS) proforma.*

3 Endorsement

The text of ETSI EN 300 443-2 [3] was approved by ITU-T as Recommendation Q.2931 B with agreed modifications as given below.

NOTE – Underlining and/or strike-out is used to highlight new or deleted text where detailed indication of modifications is necessary.

4 Coverage

This Recommendation covers ITU-T Q.2931 [1] as modified by Amendment 1 (06/97), Amendment 2 (03/99) and Corrigendum 1 to Amendment 2, Amendment 3 (03/99) and Amendment 4 (12/99).

5 Modifications

5.1 General

Throughout the text of ETSI EN 300 443-2 [3] replace references and text and expressions as shown in the following table:

Reference in ETSI EN 300 443-2	Modified reference
EN 300 443	Q.2931-series Recommendations
EN 300 443-1	ITU-T Q.2931
ITU-T Q.2931 as modified by EN 300 443-1	ITU-T Q.2931
EN 301 068-2	ITU-T Recommendation Q.2961 B
EN	Recommendation
Standard	Recommendation

Page 6, Intellectual Property Rights

Delete the whole section.

Page 6, Foreword

Delete the whole Foreword.

NOTE 1 – It is replaced by the Foreword of this Recommendation.

Page 6, Introduction

Delete the whole Introduction.

NOTE 2 – The technical content of this section is reproduced in the Scope of this Recommendation.

Page 8, Clause 1 Scope

Replace the whole clause with the following:

"1 Scope

See clause 1 Scope of this Recommendation above."

Page 15, subclause A.3 Identification of the protocol to which this PICS proforma applies

Replace the content of this subclause by the following:

"This PICS proforma applies to the following Recommendation:

- ITU-T Q.2931 (1995), *Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control.*"

Page 85, History

Delete the whole clause "History".

5.2 Additional major capabilities

On page 17, in A.7.1 "Major capabilities" add the following new items to the group "Others" in Table A.2 "Major capabilities of the user role":

Item	Major capability: Does the implementation support...	Conditions for status	Status	Reference	Support
MCu 15	indication of using recovered clock for transmission		O	Annex M	[]Yes []No
MCu 16	support of end-to-end completion indication		O	Annex N	[]Yes []No

On page 52, in A.8.1 "Major capabilities", add the following new items to the group "Others" in Table A.72 "Major capabilities of the network role":

Item	Major capability: Does the implementation support...	Conditions for status	Status	Reference	Support
MCn 14	handling of the End-to-end transit delay information element		O	Annex K	[]Yes []No
MCn 15	support the indication of using recovered clock for transmission		O	Annex M	[]Yes []No
MCn 16	support of end-to-end completion indication		O	Annex N	[]Yes []No

5.3 ATM adaptation layer parameters IE

On page 35, in A.7.6.3 "ATM adaptation layer parameters", modify item IERu 11.11 and add new items and a note before the "Comments" row of the Table A.39 "ATM adaptation layer parameters information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 11.11	SSCS type	O		☐ Yes ☐ No
	1. Null	O	0	☐ Yes ☐ No
	2. Data SSCS based on SSCOP (assured)	O	1	☐ Yes ☐ No
	3. Data SSCS based on SSCOP (non-assured)	O	2	☐ Yes ☐ No
	4. Frame relay SSCS	O	4	☐ Yes ☐ No
	5. SSCF to provide CONS	O	8	☐ Yes ☐ No
	6. SSCF to provide COTS	O	9	☐ Yes ☐ No
	7. Segmentation and re-assembly SSCS for AAL 1	O	16	☐ Yes ☐ No
	8. SSCS for trunking	O	17	☐ Yes ☐ No

IERu 11.13	Multiplier	O		☐ Yes ☐ No
IERu 11.14	Maximum CPS-SDU size	O	45 ... 64	☐ Yes ☐ No
IERu 11.15	Maximum number of multiplexed channels	O	1 ... 255	☐ Yes ☐ No
IERu 11.16	Assured data	O		☐ Yes ☐ No
	1. Assured data transfer mechanism not used	O	0	☐ Yes ☐ No
	2. Assured data transfer mechanism is used	O	1	☐ Yes ☐ No
IERu 11.17	Error detect	O		☐ Yes ☐ No
	1. Error detection mechanism not selected	O	0	☐ Yes ☐ No
	2. Error detection mechanism is selected	O	1	☐ Yes ☐ No
IERu 11.18	Forward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IERu 11.19	Backward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IERu 11.20	Service category	O		☐ Yes ☐ No
	1. Audio service	O	0	☐ Yes ☐ No
	2. Multirate service	O	1	☐ Yes ☐ No
IERu 11.21	Circuit mode data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.22	Frame mode data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.23	Demodulated facsimile data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.24	Channel associated signalling	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.25	DTMF dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.26	R1 dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.27	R2 dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERu 11.28	PCM encoding	O		☐ Yes ☐ No
	1. A-law	O	0	☐ Yes ☐ No
	2. μ -law	O	1	☐ Yes ☐ No
IERu 11.29	Maximum length of a frame mode data unit	O		☐ Yes ☐ No
IERu 11.30	Profile source	O		☐ Yes ☐ No
	1. ITU-T	O	0	☐ Yes ☐ No
	2. Other	O	1	☐ Yes ☐ No

NOTE – Items relevant to AAL type 1: from IERu 11.1 to IERu 11.7
Items relevant to AAL type 2: IERu 11.11, IERu 11.14 and IERu 11.15; from IERu 11.16 to IERu 11.19 (if SSCS type = SAR),
IERu 11.13 and from IERu 11.20 to IERu 11 (if SSCS type = trunking)
Items relevant to AAL type 3/4: from IERu 11.8 to IERu 11.11
Items relevant to AAL type 5: IERu 11.8, IERu 11.9 and IERu 11.11
Items relevant to User defined AAL type: IERu 11.12

On page 44, in A.7.7.3 "ATM adaptation layer parameters", modify item IETu 11.11 and add new items and a note before the "Comments" row in Table A.56 "ATM adaptation layer parameters information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 11.11	SSCS type	O		☐ Yes ☐ No
	1. Null	O	0	☐ Yes ☐ No
	2. Data SSCS based on SSCOP (assured)	O	1	☐ Yes ☐ No
	3. Data SSCS based on SSCOP (non-assured)	O	2	☐ Yes ☐ No
	4. Frame relay SSCS	O	4	☐ Yes ☐ No
	5. SSCF to provide CONS	O	8	☐ Yes ☐ No
	6. SSCF to provide COTS	O	9	☐ Yes ☐ No
	7. Segmentation and re-assembly SSCS for AAL 1	O	16	☐ Yes ☐ No
	8. SSCS for trunking	O	17	☐ Yes ☐ No
IETu 11.13	Multiplier	O		☐ Yes ☐ No
IETu 11.14	Maximum CPS-SDU size	O	45 ... 64	☐ Yes ☐ No
IETu 11.15	Maximum number of multiplexed channels	O	1 ... 255	☐ Yes ☐ No
IETu 11.16	Assured data	O		☐ Yes ☐ No
	1. Assured data transfer mechanism not used	O	0	☐ Yes ☐ No
	2. Assured data transfer mechanism is used	O	1	☐ Yes ☐ No
IETu 11.17	Error detect	O		☐ Yes ☐ No
	1. Error detection mechanism not selected	O	0	☐ Yes ☐ No
	2. Error detection mechanism is selected	O	1	☐ Yes ☐ No
IETu 11.18	Forward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IETu 11.19	Backward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IETu 11.20	Service category	O		☐ Yes ☐ No
	1. Audio service	O	0	☐ Yes ☐ No
	2. Multirate service	O	1	☐ Yes ☐ No
IETu 11.21	Circuit mode data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.22	Frame mode data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.23	Demodulated facsimile data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.24	Channel associated signalling	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.25	DTMF dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.26	R1 dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.27	R2 dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETu 11.28	PCM encoding	O		☐ Yes ☐ No
	1. A-law	O	0	☐ Yes ☐ No
	2. μ -law	O	1	☐ Yes ☐ No
IETu 11.29	Maximum length of a frame mode data unit	O		☐ Yes ☐ No
IETu 11.30	Profile source	O		☐ Yes ☐ No
	1. ITU-T	O	0	☐ Yes ☐ No
	2. Other	O	1	☐ Yes ☐ No
NOTE – Items relevant to AAL type 1: from IETu 11.1 to IETu 11.7 Items relevant to AAL type 2: IETu 11.11, IETu 11.14 and IETu 11.15; from IETu 11.16 to IETu 11.19 (if SSCS type = SAR), IETu 11.13 and from IETu 11.20 to IETu 11 (if SSCS type = trunking) Items relevant to AAL type 3/4: from IETu 11.8 to IETu 11.11 Items relevant to AAL type 5: IETu 11.8, IETu 11.9 and IETu 11.11 Items relevant to User defined AAL type: IETu 11.12				

On page 67, in A.8.6.3 "ATM adaptation layer parameters", modify item IERn 11.11 and add new items and a note before the "Comments" row in Table A.109 "ATM adaptation layer parameters information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 11.11	SSCS type	O		☐ Yes ☐ No
	1. Null	O	0	☐ Yes ☐ No
	2. Data SSCS based on SSCOP (assured)	O	1	☐ Yes ☐ No
	3. Data SSCS based on SSCOP (non-assured)	O	2	☐ Yes ☐ No
	4. Frame relay SSCS	O	4	☐ Yes ☐ No
	5. SSCF to provide CONS	O	8	☐ Yes ☐ No
	6. SSCF to provide COTS	O	9	☐ Yes ☐ No
	7. Segmentation and re-assembly SSCS for AAL 1	O	16	☐ Yes ☐ No
	8. SSCS for trunking	O	17	☐ Yes ☐ No
IERn 11.13	Multiplier	O		☐ Yes ☐ No
IERn 11.14	Maximum CPS-SDU size	O	45 ... 64	☐ Yes ☐ No
IERn 11.15	Maximum number of multiplexed channels	O	1 ... 255	☐ Yes ☐ No
IERn 11.16	Assured data	O		☐ Yes ☐ No
	1. Assured data transfer mechanism not used	O	0	☐ Yes ☐ No
	2. Assured data transfer mechanism is used	O	1	☐ Yes ☐ No
IERn 11.17	Error detect	O		☐ Yes ☐ No
	1. Error detection mechanism not selected	O	0	☐ Yes ☐ No
	2. Error detection mechanism is selected	O	1	☐ Yes ☐ No
IERn 11.18	Forward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IERn 11.19	Backward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IERn 11.20	Service category	O		☐ Yes ☐ No
	1. Audio service	O	0	☐ Yes ☐ No
	2. Multirate service	O	1	☐ Yes ☐ No
IERn 11.21	Circuit mode data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.22	Frame mode data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.23	Demodulated facsimile data	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.24	Channel associated signalling	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.25	DTMF dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.26	R1 dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.27	R2 dialled digits	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IERn 11.28	PCM encoding	O		☐ Yes ☐ No
	1. A-law	O	0	☐ Yes ☐ No
	2. μ -law	O	1	☐ Yes ☐ No
IERn 11.29	Maximum length of a frame mode data unit	O		☐ Yes ☐ No
IERn 11.30	Profile source	O		☐ Yes ☐ No
	1. ITU-T	O	0	☐ Yes ☐ No
	2. Other	O	1	☐ Yes ☐ No
NOTE – Items relevant to AAL type 1: from IERn 11.1 to IERn 11.7 Items relevant to AAL type 2: IERn 11.11, IERn 11.14 and IERn 11.15; from IERn 11.16 to IERn 11.19 (if SSCS type = SAR), IERn 11.13 and from IERn 11.20 to IERn 11 (if SSCS type = trunking) Items relevant to AAL type 3/4: from IERn 11.8 to IERn 11.11 Items relevant to AAL type 5: IERn 11.8, IERn 11.9 and IERn 11.11 Items relevant to User defined AAL type: IERn 11.12				

On page 76, in A.8.7.3 "ATM adaptation layer parameters", modify item IETn 11.11 and add new items and a note before the "Comments" row in Table A.127 "ATM adaptation layer parameters information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 11.11	SSCS type	O		☐ Yes ☐ No
	1. Null	O	0	☐ Yes ☐ No
	2. Data SSCS based on SSCOP (assured)	O	1	☐ Yes ☐ No
	3. Data SSCS based on SSCOP (non-assured)	O	2	☐ Yes ☐ No
	4. Frame relay SSCS	O	4	☐ Yes ☐ No
	5. SSCF to provide CONS	O	8	☐ Yes ☐ No
	6. SSCF to provide COTS	O	9	☐ Yes ☐ No
	7. Segmentation and re-assembly SSCS for AAL 1	O	16	☐ Yes ☐ No
	8. SSCS for trunking	O	17	☐ Yes ☐ No
IETn 11.13	Multiplier	O		☐ Yes ☐ No
IETn 11.14	Maximum CPS-SDU size	O	45 ... 64	☐ Yes ☐ No
IETn 11.15	Maximum number of multiplexed channels	O	1 ... 255	☐ Yes ☐ No
IETn 11.16	Assured data	O		☐ Yes ☐ No
	1. Assured data transfer mechanism not used	O	0	☐ Yes ☐ No
	2. Assured data transfer mechanism is used	O	1	☐ Yes ☐ No
IETn 11.17	Error detect	O		☐ Yes ☐ No
	1. Error detection mechanism not selected	O	0	☐ Yes ☐ No
	2. Error detection mechanism is selected	O	1	☐ Yes ☐ No
IETn 11.18	Forward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IETn 11.19	Backward maximum SSSAR-SDU length	O		☐ Yes ☐ No
IETn 11.20	Service category	O		☐ Yes ☐ No
	1. Audio service	O	0	☐ Yes ☐ No
	2. Multirate service	O	1	☐ Yes ☐ No
IETn 11.21	Circuit mode data (CMD)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.22	Frame mode data (FMD)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.23	Demodulated facsimile data (FAX)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.24	Channel associated signalling (CAS)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.25	DTMF dialled digits (DTMF)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.26	R1 dialled digits (MF-R1)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.27	R2 dialled digits (MF-R2)	O		☐ Yes ☐ No
	1. Disabled	O	0	☐ Yes ☐ No
	2. Enabled	O	1	☐ Yes ☐ No
IETn 11.28	PCM encoding	O		☐ Yes ☐ No
	1. A-law	O	0	☐ Yes ☐ No
	2. μ -law	O	1	☐ Yes ☐ No
IETn 11.29	Maximum length of a frame mode data unit	O		☐ Yes ☐ No
IETn 11.30	Profile source	O		☐ Yes ☐ No
	1. ITU-T	O	0	☐ Yes ☐ No
	2. Other	O	1	☐ Yes ☐ No
NOTE – Items relevant to AAL type 1: from IETn 11.1 to IETn 11.7 Items relevant to AAL type 2: IETn 11.11, IETn 11.14 and IETn 11.15; from IETn 11.16 to IETn 11.19 (if SSCS type = SAR), IETn 11.13 and from IETn 11.20 to IETn 11 (if SSCS type = trunking) Items relevant to AAL type 3/4: from IETn 11.8 to IETn 11.11 Items relevant to AAL type 5: IETn 11.8, IETn 11.9 and IETn 11.11 Items relevant to User defined AAL type: IETn 11.12				

5.4 ATM traffic descriptor IE

On page 36, in A.7.6.4 "ATM traffic descriptor", modify Table A.40 "ATM traffic descriptor information element contents" as below:

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 12.1	Forward peak cell rate (CLP=0)	O	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0)	Θ	N/A	☐ Yes ☐ No
	Forward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
<u>IERu 12.2</u>	<u>Backward peak cell rate (CLP=0)</u>	<u>O</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IERu 12.3</u>	<u>Forward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IERu 12.4</u>	<u>Backward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
Comments:				

On page 45, in A.7.7.4 "ATM traffic descriptor", modify Table A.57 "ATM traffic descriptor information element contents" as below:

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 12.1	Forward peak cell rate (CLP=0)	O	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0)	Θ	N/A	☐ Yes ☐ No
	Forward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
<u>IETu 12.2</u>	<u>Backward peak cell rate (CLP=0)</u>	<u>O</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IETu 12.3</u>	<u>Forward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IETu 12.4</u>	<u>Backward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
Comments:				

On page 68, in A.8.6.4 "ATM traffic descriptor", modify Table A.110 "ATM traffic descriptor information element contents" as below:

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 12.1	Forward peak cell rate (CLP=0)	O	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0)	Θ	N/A	☐ Yes ☐ No
	Forward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
<u>IERn 12.2</u>	<u>Backward peak cell rate (CLP=0)</u>	<u>O</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IERn 12.3</u>	<u>Forward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IERn 12.4</u>	<u>Backward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
Comments:				

On page 77, in A.8.7.4 "ATM traffic descriptor", modify Table A.128 "ATM traffic descriptor information element contents" as below:

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 12.1	Forward peak cell rate (CLP=0)	O	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0)	O	N/A	☐ Yes ☐ No
	Forward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
	Backward peak cell rate (CLP=0+1)	M	N/A	☐ Yes ☐ No
<u>IETn 12.2</u>	<u>Backward peak cell rate (CLP=0)</u>	<u>O</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IETn 12.3</u>	<u>Forward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
<u>IETn 12.4</u>	<u>Backward peak cell rate (CLP=0+1)</u>	<u>M</u>	<u>N/A</u>	<u>☐ Yes ☐ No</u>
Comments:				

5.5 Broadband report type IE

On page 22, in A.7.4.1 "Information elements in messages received by the user", add a new item to Table A.8 "Information elements in ALERTING received by the user":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MRu1-IE27</u>	<u>Broadband report type</u>	<u>MCu15</u> <u>NOT MCu15</u>	<u>O</u> <u>N/A</u>	<u>3.1.1, 3.2.1</u>	<u>☐ Yes ☐ No</u> <u>☐ N/A</u>

On page 23, in A.7.4.1 "Information elements in messages received by the user", add a new item to Table A.10 "Information elements in CONNECT received by the user":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MRu3-IE27</u>	<u>Broadband report type</u>	<u>MCu15 OR</u> <u>MCu16</u> <u>NOT (MCu15 OR</u> <u>MCu16)</u>	<u>O</u> <u>N/A</u>	<u>3.1.3, 3.2.3</u>	<u>☐ Yes ☐ No</u> <u>☐ N/A</u>

On page 26, in A.7.4.1 "Information elements in messages received by the user", add a new item to Table A.19 "Information elements in SETUP received by the user":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MRu12-IE27</u>	<u>Broadband report type</u>	<u>MCu15 OR</u> <u>MCu16</u> <u>NOT (MCu15 OR</u> <u>MCu16)</u>	<u>O</u> <u>N/A</u>	<u>3.1.7, 3.2.7</u>	<u>☐ Yes ☐ No</u> <u>☐ N/A</u>

On page 27, in A.7.4.2 "Information elements in messages transmitted by the user", add a new item to Table A.22 "Information elements in ALERTING transmitted by the user":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MTu1-IE27</u>	<u>Broadband report type</u>	<u>MCu15</u> <u>NOT MCu15</u>	<u>O</u> <u>N/A</u>	<u>3.1.1, 3.2.1</u>	<u>[]Yes []No</u> <u>[]N/A</u>

On page 28, in A.7.4.2 "Information elements in messages transmitted by the user", add a new item to Table A.24 "Information elements in CONNECT transmitted by the user":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MTu3-IE27</u>	<u>Broadband report type</u>	<u>MCu15 OR</u> <u>MCu16</u> <u>NOT (MCu15 OR</u> <u>MCu16)</u>	<u>O</u> <u>N/A</u>	<u>3.1.3, 3.2.3</u>	<u>[]Yes []No</u> <u>[]N/A</u>

On page 31, in A.7.4.2 "Information elements in messages transmitted by the user", add a new item to Table A.33 "Information elements in SETUP transmitted by the user":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MTu12-IE27</u>	<u>Broadband report type</u>	<u>MCu15 OR</u> <u>MCu16</u> <u>NOT (MCu15 OR</u> <u>MCu16)</u>	<u>O</u> <u>N/A</u>	<u>3.1.7, 3.2.7</u>	<u>[]Yes []No</u> <u>[]N/A</u>

On page 42, in A.7.6 "Structure of information elements received", add the following new subclause:

A.7.6.18 Broadband Report type

Table A.53 bis/Q.2931 B – Broadband Report type information element contents

<u>Item</u>	<u>Does the implementation support the information element field:</u>	<u>Status</u>	<u>Value</u>	<u>Support</u>
<u>IERu 27.1</u>	<u>Type of report</u>	<u>M</u>		<u>[]Yes []No</u>
	<u>1. Modification confirmation (Note)</u>	<u>N/A</u>	<u>1</u>	
	<u>2. Adaptive clock of the receiver used for transmit clock</u>	<u>O</u>	<u>2</u>	<u>[]Yes []No</u>
	<u>3. End-to-end connection completion capability available</u>	<u>O</u>	<u>4</u>	<u>[]Yes []No</u>
	<u>4. End-to-end connection completion indication requested</u>	<u>O</u>	<u>5</u>	<u>[]Yes []No</u>
	<u>5. End-to-end connection completed</u>	<u>O</u>	<u>6</u>	<u>[]Yes []No</u>
<u>NOTE – Codepoint for "Modification confirmation" is included into this table for completeness; not being part of basic call procedures does not need declaration in this PICS.</u>				
<u>Comments:</u>				

On page 51, in A.7.7 "Structure of information elements transmitted", add the following new clause:

A.7.7.19 Broadband Report type

Table A.71 bis/Q.2931 B – Broadband Report type information element contents

<u>Item</u>	<u>Does the implementation support the information element field:</u>	<u>Status</u>	<u>Value</u>	<u>Support</u>
<u>IETu 27.1</u>	<u>Type of report</u>	<u>M</u>		<u>[]Yes []No</u>
	<u>1. Modification confirmation (Note)</u>	<u>N/A</u>	<u>1</u>	
	<u>2. Adaptive clock of the receiver used for transmit clock</u>	<u>O</u>	<u>2</u>	<u>[]Yes []No</u>
	<u>3. End-to-end connection completion capability available</u>	<u>O</u>	<u>4</u>	<u>[]Yes []No</u>
	<u>4. End-to-end connection completion indication requested</u>	<u>O</u>	<u>5</u>	<u>[]Yes []No</u>
	<u>5. End-to-end connection completed</u>	<u>O</u>	<u>6</u>	<u>[]Yes []No</u>
NOTE – Codepoint for "Modification confirmation" is included into this table for completeness; not being part of basic call procedures does not need declaration in this PICS.				
<u>Comments:</u>				

On page 55, in A.8.4.1 "Information elements in messages received by the network", add a new item to Table A.78 "Information elements in ALERTING received by the network":

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
<u>MRn1-IE27</u>	<u>Broadband report type</u>	<u>MCn15</u>	<u>M</u>	<u>3.1.1, 3.2.1</u>	<u>[]Yes []No</u>
		<u>NOT MCn15</u>	<u>N/A</u>		<u>[]N/A</u>

On page 56, in A.8.4.1 "Information elements in messages received by the network", add a new item to Table A.80 "Information elements in CONNECT received by the network":

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
<u>MRn3-IE27</u>	<u>Broadband report type</u>	<u>MCn15 OR MCn16</u>	<u>M</u>	<u>3.1.3, 3.2.3</u>	<u>[]Yes []No</u>
		<u>NOT (MCn15 OR MCn16)</u>	<u>N/A</u>		<u>[]N/A</u>

On page 59, in A.8.4.1 "Information elements in messages received by the network", add a new item to Table A.89 "Information elements in SETUP received by the network":

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
<u>MRn12-IE27</u>	<u>Broadband report type</u>	<u>MCn15 OR MCn16</u>	<u>M</u>	<u>3.1.7, 3.2.7</u>	<u>[]Yes []No</u>
		<u>NOT (MCn15 OR MCn16)</u>	<u>N/A</u>		<u>[]N/A</u>

On page 60, in A.8.4.2 "Information elements in messages transmitted by the network", add a new item to Table A.92 "Information elements in ALERTING transmitted by the network":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MTn1-IE27</u>	<u>Broadband report type</u>	<u>MCn15</u> <u>NOT MCn15</u>	<u>O</u> <u>N/A</u>	<u>3.1.1, 3.2.1</u>	<u>[]Yes []No</u> <u>[]N/A</u>

On page 61, in A.8.4.2 "Information elements in messages transmitted by the network", add a new item to Table A.94 "Information elements in CONNECT transmitted by the network":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MTn3-IE27</u>	<u>Broadband report type</u>	<u>MCn15 OR MCn16</u> <u>NOT (MCn15 OR MCn16)</u>	<u>O</u> <u>N/A</u>	<u>3.1.3, 3.2.3</u>	<u>[]Yes []No</u> <u>[]N/A</u>

On page 64, in A.8.4.2 "Information elements in messages transmitted by the network", add a new item to Table A.103 "Information elements in SETUP transmitted by the network":

Item	Information element	Conditions for status	Status	Reference	Support
<u>MTn12-IE27</u>	<u>Broadband report type</u>	<u>MCn15 OR MCn16</u> <u>NOT (MCn15 AND MCn16)</u>	<u>O</u> <u>N/A</u>	<u>3.1.7, 3.2.7</u>	<u>[]Yes []No</u> <u>[]N/A</u>

On page 75, in A.8.6 "Structure of information elements received", add the following new subclause:

A.8.6.19 Broadband Report type

Table A.124 bis/Q.2931 B – Broadband Report type information element contents

<u>Item</u>	<u>Does the implementation support the information element field:</u>	<u>Status</u>	<u>Value</u>	<u>Support</u>
<u>IERn 27.1</u>	<u>Type of report</u>	<u>M</u>		<u>[]Yes []No</u>
	<u>1. Modification confirmation (Note)</u>	<u>N/A</u>	<u>1</u>	
	<u>2. Adaptive clock of the receiver used for transmit clock</u>	<u>O</u>	<u>2</u>	<u>[]Yes []No</u>
	<u>3. End-to-end connection completion capability available</u>	<u>O</u>	<u>4</u>	<u>[]Yes []No</u>
	<u>4. End-to-end connection completion indication requested</u>	<u>O</u>	<u>5</u>	<u>[]Yes []No</u>
	<u>5. End-to-end connection completed</u>	<u>O</u>	<u>6</u>	<u>[]Yes []No</u>
<u>NOTE – Codepoint for "Modification confirmation" is included into this table for completeness; not being part of basic call procedures does not need declaration in this PICS.</u>				
<u>Comments:</u>				

On page 83, in A.8.7 "Structure of information elements transmitted", add the following new clause:

A.8.7.18 Broadband Report type

Table A.141 bis/Q.2931 B – Broadband Report type information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 27.1	Type of report	M		☐ Yes ☐ No
	1. Modification confirmation (Note)	N/A	1	
	2. Adaptive clock of the receiver used for transmit clock	O	2	☐ Yes ☐ No
	3. End-to-end connection completion capability available	O	4	☐ Yes ☐ No
	4. End-to-end connection completion indication requested	O	5	☐ Yes ☐ No
	5. End-to-end connection completed	O	6	☐ Yes ☐ No
NOTE – Codepoint for "Modification confirmation" is included into this table for completeness, but not being part of basic call procedures does not need declaration in this PICS.				
Comments:				

5.6 Broadband high layer information IE

On page 36, in A.7.6.6 "Broadband high layer information", modify item IERu 18.1 in Table A.42 "Broadband high layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 18.1	High layer information type	M		☐ Yes ☐ No
	1. ISO/IEC	O	0	☐ Yes ☐ No
	2. User specific	O	1	☐ Yes ☐ No
	3. Vendor specific application identifier	O	3	☐ Yes ☐ No
	4. Reference to ITU-T-SG 4 B-ISDN teleservice Recommendation	O	4	☐ Yes ☐ No

On page 45, in A.7.7.6 "Broadband high layer information", modify item IETu 18.1 in Table A.59 "Broadband high layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 18.1	High layer information type	M		☐ Yes ☐ No
	1. ISO/IEC	O	0	☐ Yes ☐ No
	2. User specific	O	1	☐ Yes ☐ No
	3. Vendor specific application identifier	O	3	☐ Yes ☐ No
	4. Reference to ITU-T-SG 4 B-ISDN teleservice Recommendation	O	4	☐ Yes ☐ No

On page 68, in A.8.6.6 "Broadband high layer information", modify item IERn 18.1 in Table A.112 "Broadband high layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 18.1	High layer information type	M		☐ Yes ☐ No
	1. ISO/IEC	O	0	☐ Yes ☐ No
	2. User specific	O	1	☐ Yes ☐ No
	3. Vendor specific application identifier	O	3	☐ Yes ☐ No
	4. Reference to ITU-T-SG 4 B-ISDN teleservice Recommendation	O	4	☐ Yes ☐ No

On page 77, in A.8.7.6 "Broadband high layer information", modify item IETn 18.1 in Table A.130 "Broadband high layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 18.1	High layer information type	M		[]Yes []No
	1. ISO/IEC	O	0	[]Yes []No
	2. User specific	O	1	[]Yes []No
	3. Vendor specific application identifier	O	3	[]Yes []No
	4. Reference to ITU-T SG-4 B-ISDN teleservice Recommendation	O	4	[]Yes []No

5.7 Broadband low layer information IE

On page 37, in A.7.6.7 "Broadband low layer information", modify items IERu 17.6 and IERu 17.11 and add new items to Table A.43 "Broadband low layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 17.6	User information layer 3 protocol	O		[]Yes []No
	1. ITU-T X.25, packet layer	O	6	[]Yes []No
	2. ISO/IEC 8208	O	7	[]Yes []No
	3. ITU-T X.223 or ISO/IEC 8878	O	8	[]Yes []No
	4. ITU-T X.233 or ISO/IEC 8473	O	9	[]Yes []No
	5. ITU-T T.70	O	10	[]Yes []No
	6. ITU-T <u>X.263</u> ISO/IEC TR 9577	O	11	[]Yes []No
	7. ITU-T <u>H.310</u>	<u>O</u>	<u>12</u>	<u>[]Yes []No</u>
	8. ITU-T <u>H.321</u>	<u>O</u>	<u>13</u>	<u>[]Yes []No</u>
	79. User specified	O	16	[]Yes []No
IERu 17.11	Additional layer 3 protocol information for ITU-T <u>X.263</u> ISO/IEC TR 9577 <u>Initial Protocol Identifier (IPI)</u>	O		[]Yes []No
IERu 17.12	Terminal type	O		[]Yes []No
	1. Receive only	O	1	[]Yes []No
	2. Send only	O	2	[]Yes []No
	3. Receive and send	O	3	[]Yes []No
IERu 17.13	Terminal capability	O		[]Yes []No
	1. No indication	O	0	[]Yes []No
	2. Terminal supports AAL 1 only	O	1	[]Yes []No
	3. Terminal supports AAL 5 only	O	2	[]Yes []No
IERu 17.14	4. Terminal supports both AAL 1 and AAL 5	O	3	[]Yes []No
	Forward multiplexing capability	O		[]Yes []No
	1. No multiplexing	O	0	[]Yes []No
	2. Transport stream	O	1	[]Yes []No
	3. Transport stream with forward error correction	O	2	[]Yes []No
	4. Program stream	O	3	[]Yes []No
IERu 17.15	5. Program stream with forward error correction	O	4	[]Yes []No
	6. ITU-T H.221	O	5	[]Yes []No
	Backward multiplexing capability	O		[]Yes []No
	1. No multiplexing	O	0	[]Yes []No
	2. Transport stream	O	1	[]Yes []No
	3. Transport stream with backward error correction	O	2	[]Yes []No
	4. Program stream	O	3	[]Yes []No
	5. Program stream with backward error correction	O	4	[]Yes []No
	6. ITU-T H.221	O	5	[]Yes []No

On page 46, in A.7.7.7 "Broadband low layer information", modify items IETu 17.6 and IETu 17.11 and add new items to Table A.60 "Broadband low layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 17.6	User information layer 3 protocol	O		☐ Yes ☐ No
	1. ITU-T X.25, packet layer	O	6	☐ Yes ☐ No
	2. ISO/IEC 8208	O	7	☐ Yes ☐ No
	3. ITU-T X.223 or ISO/IEC 8878	O	8	☐ Yes ☐ No
	4. ITU-T X.233 or ISO/IEC 8473	O	9	☐ Yes ☐ No
	5. ITU-T T.70	O	10	☐ Yes ☐ No
	6. ITU-T <u>X.263</u> ISO/IEC TR 9577	O	11	☐ Yes ☐ No
	7. ITU-T H.310	<u>O</u>	<u>12</u>	<u>☐ Yes ☐ No</u>
	8. ITU-T H.321	<u>O</u>	<u>13</u>	<u>☐ Yes ☐ No</u>
	9. User specified	O	16	☐ Yes ☐ No
IETu 17.11	Additional layer 3 protocol information for ITU-T X.263 ISO/IEC TR 9577 <u>Initial Protocol Identifier (IPI)</u>	O		☐ Yes ☐ No
IETu 17.12	Terminal type	O		☐ Yes ☐ No
	1. Receive only	O	1	☐ Yes ☐ No
	2. Send only	O	2	☐ Yes ☐ No
	3. Receive and send	O	3	☐ Yes ☐ No
IETu 17.13	Terminal capability	O		☐ Yes ☐ No
	1. No indication	O	0	☐ Yes ☐ No
	2. Terminal supports AAL 1 only	O	1	☐ Yes ☐ No
	3. Terminal supports AAL 5 only	O	2	☐ Yes ☐ No
	4. Terminal supports both AAL 1 and AAL 5	O	3	☐ Yes ☐ No
IETu 17.14	Forward multiplexing capability	O		☐ Yes ☐ No
	1. No multiplexing	O	0	☐ Yes ☐ No
	2. Transport stream	O	1	☐ Yes ☐ No
	3. Transport stream with forward error correction	O	2	☐ Yes ☐ No
	4. Program stream	O	3	☐ Yes ☐ No
	5. Program stream with forward error correction	O	4	☐ Yes ☐ No
	6. ITU-T H.221	O	5	☐ Yes ☐ No
IETu 17.15	Backward multiplexing capability	O		☐ Yes ☐ No
	1. No multiplexing	O	0	☐ Yes ☐ No
	2. Transport stream	O	1	☐ Yes ☐ No
	3. Transport stream with backward error correction	O	2	☐ Yes ☐ No
	4. Program stream	O	3	☐ Yes ☐ No
	5. Program stream with backward error correction	O	4	☐ Yes ☐ No
	6. ITU-T H.221	O	5	☐ Yes ☐ No

On page 66, in A.8.6.7 "Broadband low layer information", modify items IERn 17.6 and IERn 17.11 and add new items to Table A.113 "Broadband low layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 17.6	User information layer 3 protocol	O		☐ Yes ☐ No
	1. ITU-T X.25, packet layer	O	6	☐ Yes ☐ No
	2. ISO/IEC 8208	O	7	☐ Yes ☐ No
	3. ITU-T X.223 or ISO/IEC 8878	O	8	☐ Yes ☐ No
	4. ITU-T X.233 or ISO/IEC 8473	O	9	☐ Yes ☐ No
	5. ITU-T T.70	O	10	☐ Yes ☐ No
	6. ITU-T <u>X.263</u> ISO/IEC TR 9577	O	11	☐ Yes ☐ No
	7. ITU-T <u>H.310</u>	<u>O</u>	<u>12</u>	<u>☐ Yes ☐ No</u>
	8. ITU-T <u>H.321</u>	<u>O</u>	<u>13</u>	<u>☐ Yes ☐ No</u>
	9. User specified	O	16	☐ Yes ☐ No
IERn 17.11	Additional layer 3 protocol information for ITU-T X.263 ISO/IEC TR 9577 <u>Initial Protocol Identifier (IPI)</u>	O		☐ Yes ☐ No
IERn 17.12	Terminal type	O		☐ Yes ☐ No
	1. Receive only	O	1	☐ Yes ☐ No
	2. Send only	O	2	☐ Yes ☐ No
	3. Receive and send	O	3	☐ Yes ☐ No
IERn 17.13	Terminal capability	O		☐ Yes ☐ No
	1. No indication	O	0	☐ Yes ☐ No
	2. Terminal supports AAL 1 only	O	1	☐ Yes ☐ No
	3. Terminal supports AAL 5 only	O	2	☐ Yes ☐ No
	4. Terminal supports both AAL 1 and AAL 5	O	3	☐ Yes ☐ No
IERn 17.14	Forward multiplexing capability	O		☐ Yes ☐ No
	1. No multiplexing	O	0	☐ Yes ☐ No
	2. Transport stream	O	1	☐ Yes ☐ No
	3. Transport stream with forward error correction	O	2	☐ Yes ☐ No
	4. Program stream	O	3	☐ Yes ☐ No
	5. Program stream with forward error correction	O	4	☐ Yes ☐ No
	6. ITU-T H.221	O	5	☐ Yes ☐ No
IERn 17.15	Backward multiplexing capability	O		☐ Yes ☐ No
	1. No multiplexing	O	0	☐ Yes ☐ No
	2. Transport stream	O	1	☐ Yes ☐ No
	3. Transport stream with backward error correction	O	2	☐ Yes ☐ No
	4. Program stream	O	3	☐ Yes ☐ No
	5. Program stream with backward error correction	O	4	☐ Yes ☐ No
	6. ITU-T H.221	O	5	☐ Yes ☐ No

On page 78, in A.8.7.7 "Broadband low layer information", modify items IETn 17.6 and IETn 17.11 and add new items to Table A.131 "Broadband low layer information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 17.6	User information layer 3 protocol	O		☐ Yes ☐ No
	1. ITU-T X.25, packet layer	O	6	☐ Yes ☐ No
	2. ISO/IEC 8208	O	7	☐ Yes ☐ No
	3. ITU-T X.223 or ISO/IEC 8878	O	8	☐ Yes ☐ No
	4. ITU-T X.233 or ISO/IEC 8473	O	9	☐ Yes ☐ No
	5. ITU-T T.70	O	10	☐ Yes ☐ No
	6. ITU-T <u>X.263</u> ISO/IEC TR 9577	O	11	☐ Yes ☐ No
	7. ITU-T <u>H.310</u>	<u>O</u>	<u>12</u>	<u>☐ Yes ☐ No</u>
	8. ITU-T <u>H.321</u>	<u>O</u>	<u>13</u>	<u>☐ Yes ☐ No</u>
	9. User specified	O	16	☐ Yes ☐ No
IETn 17.11	Additional layer 3 protocol information for ITU-T X.263 ISO/IEC TR 9577 <u>Initial Protocol Identifier (IPI)</u>	O		☐ Yes ☐ No
IETn 17.12	Terminal type	O		☐ Yes ☐ No
	1. Receive only	O	1	☐ Yes ☐ No
	2. Send only	O	2	☐ Yes ☐ No
	3. Receive and send	O	3	☐ Yes ☐ No
IETn 17.13	Terminal capability	O		☐ Yes ☐ No
	1. No indication	O	0	☐ Yes ☐ No
	2. Terminal supports AAL 1 only	O	1	☐ Yes ☐ No
	3. Terminal supports AAL 5 only	O	2	☐ Yes ☐ No
	4. Terminal supports both AAL 1 and AAL 5	O	3	☐ Yes ☐ No
IETn 17.14	Forward multiplexing capability	O		☐ Yes ☐ No
	1. No multiplexing	O	0	☐ Yes ☐ No
	2. Transport stream	O	1	☐ Yes ☐ No
	3. Transport stream with forward error correction	O	2	☐ Yes ☐ No
	4. Program stream	O	3	☐ Yes ☐ No
	5. Program stream with forward error correction	O	4	☐ Yes ☐ No
	6. ITU-T H.221	O	5	☐ Yes ☐ No
IETn 17.15	Backward multiplexing capability	O		☐ Yes ☐ No
	1. No multiplexing	O	0	☐ Yes ☐ No
	2. Transport stream	O	1	☐ Yes ☐ No
	3. Transport stream with backward error correction	O	2	☐ Yes ☐ No
	4. Program stream	O	3	☐ Yes ☐ No
	5. Program stream with backward error correction	O	4	☐ Yes ☐ No
	6. ITU-T H.221	O	5	☐ Yes ☐ No

5.8 Broadband sending complete IE

On page 64, in Table A.103 "Information elements in SETUP transmitted by the network" change item MTn12-IE7 as below:

Item	Information element	Conditions for status	Status	Reference	Support
MTn12-IE7	Broadband sending complete		<u>MO</u>	3.1.7, 3.2.7	☐ Yes ☐ No

5.9 Called party number IE

On page 38, in A.7.6.9 "Called party number", modify item IERu 1.2 in Table A.45 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 1.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 <u>5</u> . Private numbering plan	O	9	☐ Yes ☐ No

On page 47, in A.7.7.9 "Called party number", modify item IETu 1.2 in Table A.62 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 1.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 <u>5</u> . Private numbering plan	O	9	☐ Yes ☐ No

On page 70, in A.8.6.9 "Called party number", modify item IERn 1.2 in Table A.115 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 1.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 <u>5</u> . Private numbering plan	O	9	☐ Yes ☐ No

On page 79, in A.8.7.9 "Called party number", modify item IETn 1.2 in Table A.133 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 1.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 <u>5</u> . Private numbering plan	O	9	☐ Yes ☐ No

5.10 Called party subaddress

On page 39, in A.7.6.10 "Called party subaddress", modify item IERu 2.1 in Table A.46 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 2.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified -ATM end system address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No

On page 48, in A.7.7.10 "Called party subaddress", modify item IETu 2.1 in Table A.63 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 2.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified -ATM end system address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No

On page 71, in A.8.6.10 "Called party subaddress", modify item IERn 2.1 in Table A.116 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 2.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified -ATM end system address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No

On page 80, in A.8.7.10 "Called party subaddress", modify item IETn 2.1 in Table A.134 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 2.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified -ATM end system address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No

5.11 Calling party number IE

On page 26, in A.7.4.1 "Information elements in messages received by the user", change item MRu12-IE9 in Table A.19 "Information elements in SETUP received by the user" as below:

Item	Information element	Conditions for status	Status	Reference	Support
MRu12-IE9	Calling party number	<u>MRu12</u> <u>NOT MRu 12</u>	<u>M</u> <u>N/A</u>	3.1.7, 3.2.7	[]Yes []No

On page 39, in A.7.6.11 "Calling party number", modify item IERu 9.2 in Table A.47 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 9.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 5 . Private numbering plan	O	9	☐ Yes ☐ No

On page 48, in A.7.7.11 "Calling party number", modify item IETu 9.2 in Table A.64 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 9.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 5 . Private numbering plan	O	9	☐ Yes ☐ No

On page 64, in A.8.4.2 "Information elements in messages transmitted by the user", change item MTn12-IE9 in Table A.103 "Information elements in SETUP transmitted by the network":

Item	Information element	Conditions for status	Status	Reference	Support
MTn12-IE9	Calling party number		O	3.1.7, Note 7, 3.2.7, Note 4	☐ Yes ☐ No

On page 71, in A.8.6.11 "Calling party number", modify item IERn 9.2 in Table A.117 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 9.2	Addressing/numbering plan identification	M		☐ Yes ☐ No
	1. Unknown	O	0	☐ Yes ☐ No
	2. ISDN numbering plan	O	1	☐ Yes ☐ No
	3. NSAP ATM end system addressing	O	2	☐ Yes ☐ No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>☐ Yes ☐ No</u>
	4 5 . Private numbering plan	O	9	☐ Yes ☐ No

On page 80, in A.8.6.11 "Calling party number", modify item IETn 9.2 in Table A.135 "Called party number information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 9.2	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. NSAP ATM end system addressing	O	2	[]Yes []No
	4. <u>Data numbering plan</u>	<u>O</u>	<u>3</u>	<u>[]Yes []No</u>
	45. Private numbering plan	O	9	[]Yes []No

5.12 Calling party subaddress IE

On page 26, in A.7.4.1 "Information elements in messages received by the user", change item MRu12-IE10 in Table A.19 "Information elements in SETUP received by the user":

Item	Information element	Conditions for status	Status	Reference	Support
MRu12-IE10	Calling party subaddress	<u>MRu12</u> <u>not MRu 12</u>	<u>M</u> <u>N/A</u>	3.1.7, 3.2.7	[]Yes []No

On page 40, in A.7.6.12 "Calling party subaddress", modify item IERu 10.1 in Table A.48 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 10.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified -ATM end system address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No

On page 49, in A.7.7.12 "Calling party subaddress", modify item IETu 10.1 in Table A.65 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 10.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified -ATM end system address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No

On page 64, in A.8.4.2 "Information elements in messages transmitted by the user", change item MTn12-IE10 in Table A.103 "Information elements in SETUP transmitted by the network":

Item	Information element	Conditions for status	Status	Reference	Support
MTn12-IE10	Calling party subaddress		<u>O</u>	3.1.7, Note 8, 3.2.7, Note 5	[]Yes []No

On page 72, in A.8.6.12 "Calling party subaddress", modify item IERn 10.1 in Table A.118 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 10.1	Type of subaddress	M		☐ Yes ☐ No
	1. NSAP	O	0	☐ Yes ☐ No
	2. User specified ATM end system address	O	1	☐ Yes ☐ No
	3. User specified	O	2	☐ Yes ☐ No

On page 81, in A.8.7.12 "Calling party subaddress", modify item IETn 10.1 in Table A.136 "Called party subaddress information element contents":

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 10.1	Type of subaddress	M		☐ Yes ☐ No
	1. NSAP	O	0	☐ Yes ☐ No
	2. User specified ATM end system address	O	1	☐ Yes ☐ No
	3. User specified	O	2	☐ Yes ☐ No

5.13 CONNECTION AVAILABLE

On page 19, in A.7.3.1 "Messages received by the user", add a new item to Table A.4 "Messages received by the user" as below:

Item	Message: Does the implementation support the receipt of...	Conditions for status	Status	Reference	Support
<u>MRu 16</u>	<u>CONNECTION AVAILABLE</u>	<u>MCu16</u>	<u>M</u>	<u>3.1, 3.2, Annex N</u>	☐ Yes ☐ No
		<u>NOT MCu16</u>	<u>N/A</u>		☐ N/A

On page 20, in A.7.3.2 "Messages transmitted by the user", add a new item to Table A.5 "Messages transmitted by the user":

Item	Message: Does the implementation support the receipt of...	Conditions for status	Status	Reference	Support
<u>MTu 16</u>	<u>CONNECTION AVAILABLE</u>	<u>MCu16</u>	<u>M</u>	<u>3.1, 3.2, Annex N</u>	☐ Yes ☐ No
		<u>NOT MCu16</u>	<u>N/A</u>		☐ N/A

On page 27, in A.7.4.1 "Information elements in messages received by the user", add a new table:

Table A.21 bis/Q.2931 B – Information elements in CONNECTION AVAILABLE received by the user

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
MRu16-IE20	Notification indicator	MRu 16 NOT MRu 16	M N/A	3.1.11	☐ Yes ☐ No ☐ N/A
MRu16-IE27	Broadband report type	MRu 16 NOT MRu 16	M N/A	3.1.11	☐ Yes ☐ No ☐ N/A
<u>Comments:</u>					

On page 32, in A.7.4.2 "Information elements in messages transmitted by the user", add a new table:

Table A.35 bis/Q.2931 B – Information elements in CONNECTION AVAILABLE transmitted by the user

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
MTu16-IE20	Notification indicator	MTu 16 NOT MTu 16	O N/A	3.1.11	☐ Yes ☐ No ☐ N/A
MTu16-IE27	Broadband report type	MTu 16 NOT MTu 16	M N/A	3.1.11	☐ Yes ☐ No ☐ N/A
<u>Comments:</u>					

On page 53, in A.8.3.1 "Messages received by the network", add a new item to Table A.74 "Messages received by the network":

<u>Item</u>	<u>Message: Does the implementation support the receipt of...</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
MRn 16	CONNECTION AVAILABLE	MCn16 NOT MCn16	M N/A	3.1, 3.1.11, 3.2, Annex N	☐ Yes ☐ No ☐ N/A

On page 54, in A.8.3.2 "Messages transmitted by the network", add a new item to Table A.75 "Messages transmitted by the network":

<u>Item</u>	<u>Message: Does the implementation support the receipt of...</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
MRn 16	CONNECTION AVAILABLE	MCn16 NOT MCn16	M N/A	3.1, 3.1.11, 3.2, Annex N	☐ Yes ☐ No ☐ N/A

On page 60, in A.8.4.1 "Information elements in messages received by the network", add a new table:

**Table A.91 bis/Q.2931 B – Information elements in CONNECTION AVAILABLE
received by the network**

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
<u>MRn16-IE20</u>	<u>Notification indicator</u>	<u>MRn 16</u> <u>NOT MRn 16</u>	<u>M</u> <u>N/A</u>	<u>3.1.11</u>	<u>[]Yes []No</u> <u>[]N/A</u>
<u>MRn16-IE27</u>	<u>Broadband report type</u>	<u>MRn 16</u> <u>NOT MRn 16</u>	<u>M</u> <u>N/A</u>	<u>3.1.11</u>	<u>[]Yes []No</u> <u>[]N/A</u>
<u>Comments:</u>					

On page 65, in A.8.4.2 "Information elements in messages transmitted by the network", add a new table:

**Table A.105 bis/Q.2931 B – Information elements in CONNECTION AVAILABLE
transmitted by the network**

<u>Item</u>	<u>Information element</u>	<u>Conditions for status</u>	<u>Status</u>	<u>Reference</u>	<u>Support</u>
<u>MTn16-IE20</u>	<u>Notification indicator</u>	<u>MTn 16</u> <u>NOT MTn 16</u>	<u>O</u> <u>N/A</u>	<u>3.1.11</u>	<u>[]Yes []No</u> <u>[]N/A</u>
<u>MTn16-IE27</u>	<u>Broadband report type</u>	<u>MTn 16</u> <u>NOT MTn 16</u>	<u>O</u> <u>N/A</u>	<u>3.1.11</u>	<u>[]Yes []No</u> <u>[]N/A</u>
<u>Comments:</u>					

5.14 End-to-end transit delay

Replace the content of A.7.6.14 "End-to-end transit delay" (page 40), A.7.7.14 End-to-end transit delay" (page 49), A.8.6.14 "End-to-end transit delay" (page 72) and A.8.7.14 End-to-end transit delay" (page 81) with the following:

"For declaration of conformance with the definition of the End-to-end transit delay IE refer to the PICS proforma for ITU-T Q.2965.2 [6]."

5.15 Quality of service parameter IE

Replace the content of A.7.6.15 "Quality of service parameter" (page 41), A.7.7.15 "Quality of service parameter" (page 50), A.8.6.15 "Quality of service parameter" (page 73) and A.8.7.15 "Quality of service parameter" (page 82) with the following:

"For declaration of conformance with the definition of the QoS parameter IE refer to the PICS proforma for ITU-T Q.2965.1 [5]."

5.16 Symmetric call operation

On page 18, in A.7.2 "Subsidiary capabilities", add a new capability of the user to Table A.3 "Subsidiary capabilities of the user role":

Item	Subsidiary capability: Does the implementation support...	Conditions for status	Status	Reference	Support
SCu 6	symmetric call operation	MCu 2 NOT MCu 2	<u>O</u> N/A	Annex H	☐ Yes ☐ No ☐ N/A

On page 33, in A.7.5 "Timers", change item TMu 1 in Table A.36 "Timers in the user role":

Item	Timer: Does the implementation support...	Conditions for status	Status	Reference	Support	Values Allowed	Value Supported
Tmu 1	T301	MCu 1 AND SCu6 MCu 1 AND NOT SCu6 NOT MCu 1	<u>M</u> O N/A	Table 7-3	☐ Yes ☐ No ☐ Yes ☐ No ☐ N/A	minim. 3 min	

5.17 New timers

On page 33, in A.7.5 "Timers", add a new item to Table A.36 "Timers in the user role":

Item	Timer: Does the implementation support...	Conditions for status	Status	Reference	Support	Values Allowed	Value Supported
TMu 12	T333	MCu 16 NOT MCu 16	<u>O</u> N/A	Table N.1/ Q.2931	☐ Yes ☐ No ☐ N/A	10 s	

On page 63, in A.8.5 "Timers", add a new item to Table A.106 "Timers in the network role":

Item	Timer: Does the implementation support...	Conditions for status	Status	Reference	Support	Values Allowed	Value Supported
TMn 12	T334	MCn 16 NOT MCn 16	<u>O</u> N/A	Table N.2/ Q.2931	☐ Yes ☐ No ☐ N/A	1 s	

APPENDIX I

Bibliography

- [A] ETSI EN 300 443-1 V1.3.5 (1998), *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.]
- [B] ETSI EN 300 443-3 V1.1.3 (1999), *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 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the user*.

- [C] ETSI EN 300 443-4 V1.1.2 (2000), *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 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user.*
- [D] ETSI EN 300 443-5 V1.2.1 (2000), *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 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network.*
- [E] ETSI EN 300 443-6 V1.2.1 (2000), *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 6: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network.*

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