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Amendment 1
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SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – Common aspects of B-ISDN
application protocols for access signalling and network
signalling and interworking

AAL type 2 signalling protocol – Capability Set 3

**Amendment 1: Support for the International
Emergency Preference Scheme**

ITU-T Recommendation Q.2630.3 (2003) –
Amendment 1



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ITU-T Q-SERIES RECOMMENDATIONS
SWITCHING AND SIGNALLING

SIGNALLING IN THE INTERNATIONAL MANUAL SERVICE	Q.1–Q.3
INTERNATIONAL AUTOMATIC AND SEMI-AUTOMATIC WORKING	Q.4–Q.59
FUNCTIONS AND INFORMATION FLOWS FOR SERVICES IN THE ISDN	Q.60–Q.99
CLAUSES APPLICABLE TO ITU-T STANDARD SYSTEMS	Q.100–Q.119
SPECIFICATIONS OF SIGNALLING SYSTEMS No. 4, 5, 6, R1 AND R2	Q.120–Q.499
DIGITAL EXCHANGES	Q.500–Q.599
INTERWORKING OF SIGNALLING SYSTEMS	Q.600–Q.699
SPECIFICATIONS OF SIGNALLING SYSTEM No. 7	Q.700–Q.799
Q3 INTERFACE	Q.800–Q.849
DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1	Q.850–Q.999
PUBLIC LAND MOBILE NETWORK	Q.1000–Q.1099
INTERWORKING WITH SATELLITE MOBILE SYSTEMS	Q.1100–Q.1199
INTELLIGENT NETWORK	Q.1200–Q.1699
SIGNALLING REQUIREMENTS AND PROTOCOLS FOR IMT-2000	Q.1700–Q.1799
SPECIFICATIONS OF SIGNALLING RELATED TO BEARER INDEPENDENT CALL CONTROL (BICC)	Q.1900–Q.1999
BROADBAND ISDN	Q.2000–Q.2999
General aspects	Q.2000–Q.2099
Signalling ATM adaptation layer (SAAL)	Q.2100–Q.2199
Signalling network protocols	Q.2200–Q.2299
Common aspects of B-ISDN application protocols for access signalling and network signalling and interworking	Q.2600–Q.2699
B-ISDN application protocols for the network signalling	Q.2700–Q.2899
B-ISDN application protocols for access signalling	Q.2900–Q.2999

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

ITU-T Recommendation Q.2630.3

AAL type 2 signalling protocol – Capability Set 3

Amendment 1

Support for the International Emergency Preference Scheme

Summary

This amendment was produced to meet the need for the implementation of the International Emergency Preference Scheme (IEPS) as specified in ITU-T Rec. E.106. It contains the modifications to ITU-T Rec. Q.2630.3 (2003) in order to accommodate these needs. This amendment is designed to be compatible with implementations conforming to ITU-T Rec. Q.2630.3 (2003).

Source

Amendment 1 to ITU-T Recommendation Q.2630.3 (2003) was approved on 27 January 2006 by ITU-T Study Group 11 (2005-2008) under the WTSA Resolution 1 procedure.

FOREWORD

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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.

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CONTENTS

	Page
1) Clause 2.1	1
2) Clause 4	2
3) Clause 5.1.2	5
4) Clause 5.1.3	7
5) Clause 7.2.2	9
6) New clause 7.3.36.....	13
7) Clause 8	13
8) Clause 8.2.1.1.1.1	14
9) Clause 8.2.1.1.1.2	18
10) Clause 8.2.1.1.2.1	20
11) Clause 8.2.1.1.2.2	21
12) Clause 8.2.2.1.1	22
13) Clause 8.2.2.1.2	25
14) Clause B.3.....	27

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ITU-T Recommendation Q.2630.3

AAL type 2 signalling protocol – Capability Set 3

Amendment 1

Support for the International Emergency Preference Scheme

1) Clause 2.1

Revise clause 2.1 as follows:

2.1 Normative 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. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- [1] ITU-T Recommendation I.363.2 (2000), *B-ISDN ATM Adaptation Layer specification: Type 2 AAL*.
- [2] ITU-T Recommendation I.361 (1999), *B-ISDN ATM layer specification*.
- [3] ITU-T Recommendation X.200 (1994), *Information technology – Open Systems Interconnection – Basic reference model: The basic model*.
- [4] ITU-T Recommendation X.210 (1993), *Information technology – Open Systems Interconnection – Basic reference model: Conventions for the definition of OSI services*.
- [5] ITU-T Recommendation X.213 (2001), *Information technology – Open Systems Interconnection – Network service definitions*.
- [6] ITU-T Recommendation Q.850 (1998), *Usage of cause and location in DSS 1 and SS No. 7 ISUP*.
- [7] ITU-T Recommendation Q.2610 (1999), *Usage of cause and location in B-ISDN User Part and DSS 2*.
- [8] ITU-T Recommendation I.366.2 (1999), *AAL type 2 service specific convergence sublayer for trunking*.
- [9] ITU-T Recommendation I.366.1 (1998), *Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2*.
- [10] ITU-T Recommendation E.164 (1997), *The international public telecommunication numbering plan*.
- [11] IEEE Standard 802-2001, *IEEE Standards for Local and Metropolitan Area Networks: Overview and Architecture*.
- [12] ITU-T Recommendation Q.2150.0 (2001), *Generic signalling transport service*.
- [13] ITU-T Recommendation I.356 (2000), *B-ISDN ATM layer cell transfer performance*.

- [14] ITU-T Recommendation I.366.2 (2000), *AAL type 2 service specific convergence sublayer for narrowband services*.
- [15] ITU-T Recommendation Q.2630.1 (1999), *AAL type 2 signalling protocol – Capability Set 1*.
- [16] ITU-T Recommendation Q.2630.2 (2000), *AAL type 2 signalling protocol – Capability Set 2*.
- [17] ITU-T Recommendation E.412 (2003), *Network management controls*.
- [18] ITU-T Recommendation Q.542 (1993), *Digital exchange design objectives – Operations and maintenance*.
- [19] ITU-T Recommendation I.378 (2002), *Traffic control and congestion control at the ATM Adaptation Layer Type 2*.
- [20] ITU-T Recommendation E.106 (2003), *International Emergency Preference Scheme (IEPS) for disaster relief operations*.

2) Clause 4

Add the following new abbreviations alphabetically:

4 Abbreviations

A2P	AAL type 2 Path Identifier
A2SU	AAL type 2 Served User
AAL	ATM Adaptation Layer
ACC	Automatic Congestion Control
AESA	ATM End System Address
AMR	Adaptive Multi-rate Codec
ANI	Adjacent AAL type 2 Node Identifier
ATM	Asynchronous Transfer Mode
ATM VCC	ATM Virtual Channel Connection
BCD	Binary Coded Decimal
BLC	Block Confirm Message
BLO	Block Request Message
CAS	Channel Associated Signalling
CAU	Cause Parameter
CEID	AAL type 2 Connection Element Identifier
CFN	Confusion Message
CID	Channel Identifier
CMD	Circuit Mode Data
CP	Connection Priority
CPHL	CPS Packet Header Overhead Length
CPS	(AAL type 2) Common Part Sublayer

CS	Capability Set
CS-1	Capability Set 1 (ITU-T Rec. Q.2630.1 [15])
CS-2	Capability Set 2 (ITU-T Rec. Q.2630.2 [16])
CS-3	Capability Set 3 (this Recommendation)
DA2EA	Destination AAL type 2 Service Endpoint Address (Note 1)
DESEA	Destination E.164 Service Endpoint Address Parameter (Note 1)
DNSEA	Destination NSAP Service Endpoint Address Parameter (Note 1)
DSAID	Destination Signalling Association Identifier
DTMF	Dual Tone Multi-Frequency
ECF	Establish Confirm Message
ERQ	Establish Request Message
FAX	Demodulated Facsimile Data
FBW	Fixed Bandwidth Transfer Capability
FRM	Frame Mode Data
GST	Generic Signalling Transport
HBx	Header Bit Rate associated with x
HC	Hop Counter
ID	Identifier
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
<u>IEPS</u>	<u>International Emergency Preference Scheme</u>
<u>II</u>	<u>IEPS Indicator</u>
ISO	International Organization for Standardization
LB	Loopback
LC	Link Characteristics (Note 2)
LM	Layer Management
LSB	Least Significant Bit
M	Mandatory
MF-R1	Multi-Frequency R1
MF-R2	Multi-Frequency R2
MOA	Modification Acknowledge message
MOD	Modification Request message
MOR	Modification Reject message
MSB	Most Significant Bit
MSLC	Modify Support for Link Characteristics
MSSSI	Modify Support for SSCS Information
MTP3b	Message Transfer Part level 3 using ITU-T Rec. Q.2140 [29]

NF	Nodal Function
NNI	Network-Network Interface
NSAP	Network Service Access Point
O	Optional
OA2EA	Origination AAL type 2 Service Endpoint Address
OESEA	Origination E.164 Service Endpoint Address Parameter
ONSEA	Origination NSAP Service Endpoint Address Parameter
OSAID	Originating Signalling Association Identifier (Parameter)
OUI	Organizational Unique Identifier
PFBW	Preferred FBW
PLC	Preferred Link Characteristics
PSSCS	Preferred SSCS Information
PSSIAE	Preferred Service Specific Information (Audio Extended)
PSSIME	Preferred Service Specific Information (Multirate Extended)
PT	Path Type
PTC	Preferred Transfer Capability
PVBWS	Preferred VBWS
PVBWT	Preferred VBWT
PVC	Permanent Virtual Channel
RC	Rate Control
REL	Release Request Message
RES	Reset Request Message
RLC	Release Confirm Message
RSC	Reset Confirm Message
SAAL	ATM Adaptation Layer for Signalling
SAID	Signalling Association Identifier
SAP	Service Access Point
SAR	Segmentation and Reassembly (Sublayer)
SDL	Specification and Description Language
SDU	Service Data Unit
SPVC	Soft PVC
SSCOP	Service Specific Connection Oriented Protocol
SSCS	Service Specific Convergence Sublayer
SSCS	SSCS Information
SSIA	Service Specific Information (Audio) Parameter
SSIAE	Service Specific Information (Audio Extended)
SSIM	Service Specific Information (Multirate) Parameter

SSIME	Service Specific Information (Multirate Extended)
SSISA	Service Specific Information (SAR-assured) Parameter
SSISU	Service Specific Information (SAR-unassured) Parameter
SSSAR	Segmentation and Reassembly Service Specific Convergence Sublayer
STC	Signalling Transport Converter
SUCI	Served User Correlation ID
SUGR	Served User Generated Reference
SUT	Served User Transport
SVC	Switched Virtual Channel
SYN	Synchronization of change in SSCS operation
TAR	Temporary Alternative Routing
TC	Transfer Capability
TCC	TAR Controlled Connection
TCI	Test Connection Indication
TCS	Transfer Capability Support
TED	Transmission Error Detection
UBC	Unblock Confirm Message
UBL	Unblock Request Message
UNI	User-Network Interface
UU	User-user
VBWS	Variable Bandwidth Stringent Transfer Capability
VBWT	Variable Bandwidth Tolerant Transfer Capability
VCC	Virtual Channel Connection
VPC	Virtual Path Connection

NOTE 1 – In ITU-T Recs Q.2630.1 [15] and Q.2630.2 [16], the abbreviation A2EA was used instead of DA2EA, ESEA instead of DESEA, and NSEA instead of DNSEA.

NOTE 2 – In ITU-T Rec. Q.2630.1 [15], the abbreviation ALC was used instead of LC.

3) **Clause 5.1.2**

Revise clause 5.1.2 as follows:

5.1.2 Primitives between AAL type 2 signalling entities and the AAL type 2 served user

The A2SU-SAP primitives are used:

- 1) by the originating served user to initiate AAL type 2 connection establishment and by the originating and destination served users to initiate the release of a connection;
- 2) by the AAL type 2 signalling entities to indicate an incoming connection to the destination served user and notifying either the originating or destination served user of the release of a connection;
- 3) by the modification sending served user to originate, and the modification receiving served user to respond to, an AAL type 2 connection resource modification request; and