



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2931

Amendment 2
(03/99)

SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for
access signalling

Digital subscriber signalling system No. 2 –
User-network interface (UNI) layer 3 specification
for basic call/connection control

Amendment 2

ITU-T Recommendation Q.2931 – Amendment 2

(Previously CCITT Recommendation)

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ITU-T RECOMMENDATION Q.2931

DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 2 – USER-NETWORK INTERFACE
(UNI) LAYER 3 SPECIFICATION FOR BASIC CALL/CONNECTION CONTROL

AMENDMENT 2

Summary

Recommendation Q.2931 provides basic call and connection control for point-to-point connections in a B-ISDN. Amendment 2 to Recommendation Q.2931 has been prepared to allow signalling of AAL parameters associated with ATM Adaptation Layers specified in the I-series Recommendations since the original publication of Recommendation Q.2931 and is designed to be compatible with implementations conforming to the first edition of Recommendation Q.2931 (1995).

The changes from Recommendation Q.2931 (1995) specify B-ISDN call control to support advances made in the I-series Recommendations concerned with ATM Adaptation Layer protocols that have been introduced since the original publication of Q.2931 (1995). Specifically, this amendment includes support for the following Recommendations:

- ITU-T Recommendation I.363.1 (1996), *B-ISDN ATM Adaptation Layer specification: Type 1 AAL*.
- ITU-T Recommendation I.363.2 (1997), *B-ISDN ATM Adaptation Layer specification: Type 2 AAL*.
- ITU-T Recommendation I.363.3 (1996), *B-ISDN ATM Adaptation Layer specification: Type 3/4 AAL*.
- ITU-T Recommendation I.363.5 (1996), *B-ISDN ATM Adaptation Layer specification: Type 5 AAL*.
- ITU-T Recommendation I.365.1 (1993), *B-ISDN ATM adaptation layer sublayers: Frame relaying service specific convergence sublayer (FR-SSCS)*.
- ITU-T Recommendation I.365.2 (1995), *B-ISDN ATM adaptation layer sublayers: Service specific coordination function to provide the connection-oriented network service*.
- ITU-T Recommendation I.365.3 (1995), *B-ISDN ATM adaptation layer sublayers: Service specific coordination function to provide the connection-oriented transport service*.
- ITU-T Recommendation I.366.1 (1998), *Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL Type 2*.
- ITU-T Recommendation I.366.2 (1999), *AAL Type 2 SSCS for trunking*.
- ITU-T Recommendation Q.2110 (1994), *B-ISDN ATM adaptation layer – Service specific connection oriented protocol (SSCOP)*.

Source

Amendment 2 to ITU-T Recommendation Q.2931 was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on 15 March 1999.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The 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 Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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 term *recognized operating agency (ROA)* includes any individual, company, corporation or governmental organization that operates a public correspondence service. The terms *Administration*, *ROA* and *public correspondence* are defined in the *Constitution of the ITU (Geneva, 1992)*.

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As of the date of approval of this Recommendation, the 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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Introduction

This amendment to Recommendation Q.2931 has been prepared to allow compatibility with implementations conforming to the first edition of Recommendation Q.2931 (1995).

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- ITU-T Recommendation I.363.5 (1996), *B-ISDN ATM Adaptation Layer: Type 5 AAL specification.*
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- ITU-T Recommendation I.366.2 (1999), *AAL Type 2 SSCS for trunking.*
- ITU-T Recommendation Q.2110 (1994), *B-ISDN ATM adaptation layer – Service specific connection oriented protocol (SSCOP).*

NOTE – This amendment to Recommendation Q.2931 does not include an explicit modification of the reference list in Annex J/Q.2931. It is expected that a future amendment or revision of Recommendation Q.2931 will include the following additions to the list of references:

- ITU-T Recommendation I.363.1 (1996), *B-ISDN ATM Adaptation Layer: Type 1 AAL specification.*
- ITU-T Recommendation I.363.2 (1997), *B-ISDN ATM Adaptation Layer: Type 2 AAL specification.*
- ITU-T Recommendation I.363.3 (1996), *B-ISDN ATM Adaptation Layer: Type 3/4 AAL specification.*
- ITU-T Recommendation I.363.5 (1996), *B-ISDN ATM Adaptation Layer: Type 5 AAL specification.*
- ITU-T Recommendation I.365.1 (1993), *B-ISDN ATM adaptation layer sublayers: Frame relaying service specific convergence sublayer (FR-SSCS).*
- ITU-T Recommendation I.365.2 (1995), *B-ISDN ATM adaptation layer sublayers: Service specific coordination function to provide the connection-oriented network service.*
- ITU-T Recommendation I.365.3 (1995), *B-ISDN ATM adaptation layer sublayers: Service specific coordination function to provide the connection-oriented transport service.*

- ITU-T Recommendation I.366.1 (1998), *Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL Type 2*.
- ITU-T Recommendation I.366.2 (1999), *AAL Type 2 SSCS for trunking*.
- CCITT Recommendation Q.320 (1988), *(Signalling System R1) Signal code for register signalling*.
- CCITT Recommendation Q.322 (1988), *(Signalling System R1) Multifrequency signal sender*.
- CCITT Recommendation Q.323 (1988), *(Signalling System R1) Multifrequency signal receiving equipment*.
- CCITT Recommendation Q.441 (1988), *(Signalling System R2 – Interregister signalling) Signalling code*.
- IEEE Standard 802-1990, *IEEE Standards for Local and Metropolitan Area Networks: Overview and Architecture*.

