



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2931

Amendment 3
(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 3

ITU-T Recommendation Q.2931 – Amendment 3

(Previously CCITT Recommendation)

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 AND No. 5	Q.120–Q.249
SPECIFICATIONS OF SIGNALLING SYSTEM No. 6	Q.250–Q.309
SPECIFICATIONS OF SIGNALLING SYSTEM R1	Q.310–Q.399
SPECIFICATIONS OF SIGNALLING SYSTEM R2	Q.400–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.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
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 ITU-T List of Recommendations.

ITU-T RECOMMENDATION Q.2931

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

AMENDMENT 3

Summary

Recommendation Q.2931 provides basic call and connection control for point-to-point connections in a B-ISDN. This amendment has been prepared to allow the creation of Recommendation Q.2965.1 to contain all the information on the encoding of the quality of service parameter information element and the related procedures in a manner that is consistent with the second edition of Recommendation I.356. This amendment is issued in conjunction with Recommendation Q.2965.1.

Specifically, this amendment includes support for the following Recommendations:

- ITU-T Recommendation I.356 (1996), *B-ISDN ATM layer cell transfer performance*.
- ITU-T Recommendation Q.2965.1 (1999), *Digital subscriber signalling system No. 2 – Support of quality of service classes*.

Source

Amendment 3 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 the 15th of 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 has been prepared to allow the creation of Recommendation Q.2965.1 to contain all the information on the encoding of the quality of service parameter information element and the related procedures in a manner that is consistent with the second edition of Recommendation I.356. This amendment is issued in conjunction with Recommendation Q.2965.1.

Specifically, this amendment includes support for the following Recommendations:

- ITU-T Recommendation I.356 (1996), *B-ISDN ATM layer cell transfer performance*.
- ITU-T Recommendation Q.2965.1 (1999), *Digital subscriber signalling system No. 2 – Support of quality of service classes*.

NOTE – This amendment to ITU-T 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.356 (1996), *B-ISDN ATM layer cell transfer performance*.
- ITU-T Recommendation Q.2965.1 (1999), *Digital subscriber signalling system No. 2 – Support of quality of service classes*.

Recommendation Q.2931

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

AMENDMENT 3

(Geneva, 1999)

1) Subclause 4.5.18 – Quality of service parameter

*Replace the contents of the subclause (including Figure 4-24/Q.2931 and Table 4-18/Q.2931) with:
See Recommendation Q.2965.1.*

2) Subclause 5.1.3 – QoS and traffic parameter selection procedures

Replace the entire contents with the following text:

For the handling of traffic parameters in combination with QoS class, see 9.1/Q.2965.1.

The user shall indicate the requested peak cell rate in the ATM traffic descriptor information element.

If the network is able to provide the requested peak cell rate, the network shall progress the call to the called user. If the network is not able to provide the requested peak cell rate, the network shall reject the call, returning a RELEASE COMPLETE message with cause No. 37, "user cell rate unavailable".

3) Subclause 5.2.4 – QoS and traffic parameter selection procedures

Replace the entire contents with the following text:

For the handling of traffic parameters in combination with QoS class, see 9.2/Q.2965.1.

The cumulative end-to-end transit delay is indicated in the end-to-end transit delay information element. If the user is not able to accept the indicated end-to-end transit delay, the user shall reject the call, returning a RELEASE COMPLETE message with cause No. 49, "Quality of Service unavailable".

The network shall indicate the peak cell rate in the ATM traffic descriptor information element.

If the user is not able to provide the indicated peak cell rate, the user shall reject the call, returning a RELEASE COMPLETE message with cause No. 47, "resource unavailable, unspecified".

ITU-T RECOMMENDATIONS SERIES

- Series A Organization of the work of the ITU-T
- Series B Means of expression: definitions, symbols, classification
- Series C General telecommunication statistics
- Series D General tariff principles
- Series E Overall network operation, telephone service, service operation and human factors
- Series F Non-telephone telecommunication services
- Series G Transmission systems and media, digital systems and networks
- Series H Audiovisual and multimedia systems
- Series I Integrated services digital network
- Series J Transmission of television, sound programme and other multimedia signals
- Series K Protection against interference
- Series L Construction, installation and protection of cables and other elements of outside plant
- Series M TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
- Series N Maintenance: international sound programme and television transmission circuits
- Series O Specifications of measuring equipment
- Series P Telephone transmission quality, telephone installations, local line networks
- Series Q Switching and signalling**
- Series R Telegraph transmission
- Series S Telegraph services terminal equipment
- Series T Terminals for telematic services
- Series U Telegraph switching
- Series V Data communication over the telephone network
- Series X Data networks and open system communications
- Series Y Global information infrastructure and Internet protocol aspects
- Series Z Languages and general software aspects for telecommunication systems