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SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for
access signalling

**Digital subscriber signalling system No. 2 –
Signalling of individual Quality of Service
parameters: Protocol Implementation
Conformance Statement (PICS) proforma**

ITU-T Recommendation Q.2965.2 B

(Formerly CCITT Recommendation)

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Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters: 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 [4]) of implementations conforming to the procedures for the handling of Quality of Service parameters that may be used for basic call and connection control of the Digital Subscriber Signalling System No. 2 (DSS2) protocol for the Broadband Integrated Services Digital Network (B-ISDN), ITU-T Q.2965.2 [1].

Source

ITU-T Recommendation Q.2965.2 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.

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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.2965.2 B

Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters: 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 [4]) of implementations conforming to the procedures for the handling of Quality of Service classes that may be used for basic call and connection control of the Digital Subscriber Signalling System No. 2 (DSS2) protocol for the Broadband Integrated Services Digital Network (B-ISDN), ITU-T Q.2965.2 [1].

This Recommendation is applicable to equipment, supporting B-ISDN 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.2965.2 is required to complete a copy of the PICS proforma provided in Annex A.

NOTE – No PICS proforma is required to be completed for implementation capabilities not covered by this Recommendation. For coverage of capabilities, refer to clause 6.

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 currently valid ITU-T Recommendations is regularly published.

- [1] ITU-T Q.2965.2 (1999), *Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters*.
- [2] ITU-T Q.2931 (1995), *Digital subscriber signalling system No. 2 – User-network interface (UNI) layer 3 specification for basic call/connection control*.
- [3] ITU-T Q.2931 B (2000), *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*.
- [4] ITU-T I.413 (1993), *B-ISDN user-network interface*.

- [5] ITU-T X.290 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts*.
ISO/IEC 9646-1:1994, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts*.
- [6] ITU-T X.296 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements*.
ISO/IEC 9646-7:1995, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 7: Implementation Conformance Statements*.

3 Definitions

For the purposes of this Recommendation, the terms and definitions given in ITU-T Q.2931 [2] and ITU-T Q.2965.2 [1], ITU-T X.290 | ISO/IEC 9646-1 [5], and ITU-T X.296 | ISO/IEC 9646-7 [6] apply. In particular, the following terms defined in ITU-T X.290 | ISO/IEC 9646-1 [5] apply:

3.1 implementation conformance statement (ICS): Statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, and information object ICS.

3.2 protocol implementation conformance statement (PICS): ICS for an implementation or system claimed to conform to a given protocol specification.

3.3 PICS proforma: A document, in the form of a questionnaire which, when completed for an implementation or system, becomes a PICS.

The following definitions also apply:

3.4 network: DSS2 protocol entity at the network side of the user-network interface.

3.5 user: DSS2 protocol entity at the user side of the user-network interface.

4 Abbreviations

This Recommendation uses the following abbreviations:

B-ISDN	Broadband ISDN
CDV	Cell Delay Variation
CLR	Cell Loss Ratio
DSS2	Digital Subscriber Signalling System No. 2
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
QoS	Quality of Service
SUT	System Under Test

5 Conformance

A PICS proforma that conforms to this PICS proforma specification shall be technically equivalent to Annex A, and shall preserve the numbering and ordering of the items in Annex A.