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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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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

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.

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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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.

A PICS that conforms to this PICS proforma specification shall:

a) describe an implementation which conforms to ITU-T Q.2965.2 [1];

b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in A.1;

c) include the information necessary to uniquely identify both the supplier and the implementation.

6 Coverage

This Recommendation covers requirements given in ITU-T Q.2965.2 [1] as modified by ITU-T Q.2965.2/Amd.1 (1999).

ANNEX A[1]

PICS proforma for ITU-T Q.2965.2

A.1 Guidance for completing the PICS proforma

A.1.1 Purpose and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ITU-T Q.2965.2 may provide information in a standardized manner.

This PICS proforma may be used in two different ways. In the first case, it is used to declare conformance with DSS2 basic call requirements, i.e., filled in together with the PICS proforma provided in ITU-T Q.2931 B [3]. In this case, at least the identification of the IUT, the global statement (see A.2.2 and A.5) and tables in A.6 to A.8 as appropriate shall be filled in (e.g. questions R.1, R.2, MCu 1, MCu 2, MCn 1, MCn 2 may be left not answered as the same questions are contained in ITU-T Q.2931 B).

In the second case, it is used to declare conformance to ITU-T Q.2965.2 independently of ITU-T Q.2931 B and all information requested by this proforma shall be provided.

The PICS proforma is subdivided into clauses as follows:

A.1: Guidance for completing the various parts of the PICS proforma;

A.2: Identification of the implementation;

A.3: Identification of the protocol to which this PICS proforma applies;

A.4: Explanation of the PICS proforma tables;

A.5: Global statement of conformance;

A.6: Questions to determine roles;

A.7: Questions for the user role;

A.8: Questions for the network role.

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[1] **Copyright release for PICS proforma**

Users of this Recommendation may freely reproduce the PICS proforma in this annex so that it can be used for its intended purpose and may further publish the completed PICS.

A.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ITU-T X.296 | ISO/IEC 9646-7.

Item column

The Item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma. Items are not always numbered sequentially.

Item description column

The Item description contains a brief summary of the static requirement for which a support answer is required.

Conditions for Status column

The conditions for Status column contains a specification, if appropriate, of the predicate upon which a conditional status is based.

Status column

The following notations, defined in ITU-T X.296 | ISO/IEC 9646-7, are used for the Status column:

I Irrelevant or out-of-scope – This capability is outside the scope of the Recommendation to which this PICS proforma applies and is not subject to conformance testing in this context.

M Mandatory – The capability is required to be supported.

N/A Not Applicable – In the given context, it is impossible to use the capability. No answer in the Support column is required.

O Optional – The capability may be supported or not.

O.i qualified Optional – For mutually exclusive or selectable options from a set. "i" is an integer that identifies a unique group of related optional items and the logic of their selection, defined below the table.

X eXcluded or prohibited – There is a requirement not to use this capability in a given context.

Reference column

Except where explicitly stated, the Reference column refers to the appropriate text of ITU-T Q.2965.2 describing the particular item.

NOTE – A reference indicates only the location of the most essential information about an item. All additional requirements contained in ITU-T Q.2931 and ITU-T Q.2965.2 have also to be taken into account when making a statement about the conformance of that particular item.

Support column

The following notation, defined in ITU-T X.296 | ISO/IEC 9646-7, is used for the Support column:

[ ] Yes Tick "Yes" if item is supported.

[ ] No Tick "No" if item is not supported.

[ ] N/A Tick "N/A" if the item is "not applicable".

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause heading or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma. For each row in each PICS proforma table, the supplier shall enter an explicit answer (i.e. by ticking the appropriate "Yes", "No", or "N/A" in each of the support column boxes provided). Where a Support column box is left blank, or where it is marked "N/A" without any tick box, no answer is required.

If necessary, the supplier may enter additional comments at the end of each table, or separately.

More detailed instructions may be found at the beginning of each clause of the proforma.

A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in to provide as much detail as possible regarding version numbers and configuration options.

The product supplier and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

A.2.3 System Under Test (SUT) identification

SUT name:

.....

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Hardware configuration:

.....

.....

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Operating system:

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A.2.4 Product supplier

Name:

.....

Address:

.....

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Telephone number:

.....

Facsimile number:

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E-mail address:

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Additional information:

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A.2.5 Client

Name:

.....

Address:

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Telephone number:

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Facsimile number:

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E-mail address:

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Additional information:

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A.2.6 PICS contact person

Name:

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Telephone number:

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Facsimile number:

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E-mail address:

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Additional information:

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.....

.....

A.3 Identification of the protocol to which this PICS proforma applies

This PICS proforma applies to the following Recommendation:

– ITU-T Q.2965.2 (1999), *Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters*.

A.4 PICS proforma tables

A.4.1 Correspondence to a physical interface

The "implementation" (IUT) about which this PICS proforma asks questions corresponds to a layer 3 implementation on top of ONE physical interface. If the SUT implements more than one configuration, then a layer 3 PICS shall be created for each type of interface (and for each configuration of each interface) provided by the SUT.

A.4.2 Structure of the tables

The supplier shall provide answers to the questions concerning the major roles of the IUT (see Table A.1). The supplier shall then provide answers to the questions relating to the capabilities of the IUT in one of the major roles as appropriate. Apart from the initial questions to determine roles, the major roles of the IUT (the user role (R 1) and the network role (R 2)) are treated completely separately in the PICS proforma. It is only necessary to complete the questions for the supported role. Clause A.7 concerns the capabilities of the IUT whilst in the user role. Clause A.8 concerns the capabilities of the IUT whilst in the network role.

A.4.3 Complexity of conditions in Protocol Data Unit (PDU) parameter tables

The conditions governing when an individual information element has to be supported in a specific message are quite complex. To make the conditions for status easier to understand, questions about these information elements have been split into several sub-items.

A.4.4 Support for received PDU parameters

In the PDU parameter tables (see A.7.4 and A.8.4), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This clause explains, in the context of ITU-T Q.2931 [2], what "to support a received PDU parameter" means.

The requirement that an IUT is able to parse an information element in a received message is already implied by claiming support for the receipt of that received message. This means that "to support a received PDU parameter" implies more.

Information elements in received messages are regarded as either transparent or non-transparent.

A non-transparent information element is one that causes the protocol control entity to vary its behaviour in accordance with the content of the information element. To support a non-transparent information element means an IUT can process the received parameter and behave according to the procedures described in ITU-T Q.2965.2.

An information element is transparent if the actions taken according to its contents are not detectable in the subsequent behaviour of the protocol (i.e., ITU-T Q.2965.2 does not specify the protocol behaviour). To support a transparent information element means an IUT can receive the information element concerned and pass it to an appropriate processing entity (e.g., call control); the information element is not discarded by the protocol control entity. Non-support of a transparent information element means that the IUT discards it.

A.5 Global statement of conformance

Does the implementation described in this PICS meet all the mandatory requirements of the referenced Recommendation?

[ ] Yes

[ ] No

NOTE – Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the Comments field at the bottom of each table or on attached pages.

A.6 Roles

Table A.1/Q.2965.2 B – Roles

Item	Role: Does the implementation support ...	Conditions for status	Status	Reference	Support
R 1	the user role?		O.1		[ ]Yes [ ]No
R 1.1	requirements for the coincident S_B and T_B reference point?		O.2		[ ]Yes [ ]No
R 1.2	requirements for the T_B reference point?		O.2		[ ]Yes [ ]No
R 2	the network role?		O.1		[ ]Yes [ ]No
R 2.1	requirements for the coincident S_B and T_B reference point?		O.3		[ ]Yes [ ]No
R 2.2	requirements for the T_B reference point?		O.3		[ ]Yes [ ]No

Table A.1/Q.2965.2 B – Roles *(concluded)*

O.1 Support of one, and only one, of these options is required. O.2 Support of one, and only one, of these options is required. O.3 Support of one, and only one, of these options is required.
Comments:

A.7 User

The tables provided in this clause need only to be completed for user implementations.
Prerequisite: R 1.

A.7.1 Major capabilities

Each question in Table A.2 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses of ITU-T Q.2965.2. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.2/Q.2965.2 B – Major capabilities of the user role

Item	Major capability: Does the implementation support ...	Conditions for status	Status	Reference	Support
Call establishment at the originating interface					
MCu 1	outgoing calls?		O.2	5.1/Q.2931	[ ]Yes [ ]No
MCu 1.1	support of signalling of individual QoS parameters?	R 1.2 R 1.1	O X	6.1	[ ]Yes [ ]No [ ]Yes [ ]No
Call establishment at the destination interface					
MCu 2	incoming calls?		O.2	5.2/Q.2931	[ ]Yes [ ]No
MCu 2.1	support of signalling of individual QoS parameters?	R 1.2 R 1.1	O X	6.1	[ ]Yes [ ]No [ ]Yes [ ]No
O.2 Support of at least one of these options is required.					
Comments:					

A.7.2 Subsidiary capabilities

No items requiring response.

A.7.3 PDUs

No items requiring response.

A.7.4 PDU parameters

A.7.4.1 Information elements in messages received by the user

Table A.3/Q.2965.2 B – Information elements in CONNECT received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu3-IE28	Extended QoS parameters	MCu 1.1 NOT MCu 1.1	M N/A	8.1.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.4/Q.2965.2 B – Information elements in SETUP received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu12-IE28	Extended QoS parameters	MCu 2.1 NOT MCu 2.1	M N/A	8.1.2	[ ]Yes [ ]No [ ]N/A
Comments:					

A.7.4.2 Information elements in messages transmitted by the user

Table A.5/Q.2965.2 B – Information elements in CONNECT transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu3-IE28	Extended QoS parameters	MCu 2.1 NOT MCu 2.1	O N/A	8.1.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.6/Q.2965.2 B – Information elements in SETUP transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu12-IE28	Extended QoS parameters	MCu 1.1 NOT MCu 1.1	O N/A	8.1.2	[ ]Yes [ ]No [ ]N/A
Comments:					

A.7.5 Timers

No items requiring response.

A.7.6 Structure of information elements received

These tables are to be completed in order to evaluate the likelihood of successful interoperation of two implementations.
Prerequisite: MCu 2.

A.7.6.1 End-to-end transit delay

Table A.7/Q.2965.2 B – End-to-end transit delay information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 19.1	Maximum end-to-end transit delay	O		[ ]Yes [ ]No
IERu 19.2	Cumulative transit delay	M		[ ]Yes [ ]No
IERu 19.2	Network generated indicator	O		[ ]Yes [ ]No
Comments:				

A.7.6.2 Extended QoS parameters

Table A.8/Q.2965.2 B – Extended QoS parameters information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 28.1	Origin	M		[ ]Yes [ ]No
	1. Calling user	O	0	[ ]Yes [ ]No
	2. Intermediate network	O	1	[ ]Yes [ ]No
IERu 28.2	Acceptable forward CDV	O		[ ]Yes [ ]No
IERu 28.3	Acceptable backward CDV	O		[ ]Yes [ ]No
IERu 28.4	Cumulative forward CDV	O		[ ]Yes [ ]No
IERu 28.5	Cumulative backward CDV	O		[ ]Yes [ ]No
IERu 28.6	Acceptable forward CLR	O		[ ]Yes [ ]No
IERu 28.7	Acceptable backward CLR	O		[ ]Yes [ ]No
Comments:				

A.7.7 Structure of information elements transmitted

These tables are to be completed in order to evaluate the likelihood of successful interoperation of two implementations.
Prerequisite: MCu 1.

A.7.7.1 End-to-end transit delay

Table A.9/Q.2965.2 B – End-to-end transit delay information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IETu 19.1a	Maximum end-to-end transit delay in SETUP	M		[ ]Yes [ ]No
IETu 19.1b	Maximum end-to-end transit delay in CONNECT	X		[ ]Yes [ ]No
IETu 19.2	Cumulative transit delay	M		[ ]Yes [ ]No
IETu 19.2	Network generated indicator	O		[ ]Yes [ ]No
Comments:				

A.7.7.2 Extended QoS parameters

Table A.10/Q.2965.2 B – Extended QoS parameters information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IERu 28.1	Origin	M		[ ]Yes [ ]No
	1. Calling user	O	0	[ ]Yes [ ]No
	2. Intermediate network	O	1	[ ]Yes [ ]No
IERu 28.2	Acceptable forward CDV	O		[ ]Yes [ ]No
IERu 28.3	Acceptable backward CDV	O		[ ]Yes [ ]No
IERu 28.4	Cumulative forward CDV	O		[ ]Yes [ ]No
IERu 28.5	Cumulative backward CDV	O		[ ]Yes [ ]No
IERu 28.6	Acceptable forward CLR	O		[ ]Yes [ ]No
IERu 28.7	Acceptable backward CLRV	O		[ ]Yes [ ]No
Comments:				

A.8 Network

The tables provided in this clause need only to be completed for user implementations.
Prerequisite: R 2.

A.8.1 Major capabilities

Each question in Table A.11 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses of ITU-T Q.2965.2. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.11/Q.2965.2 B – Major capabilities of the network role

Item	Major capability: Does the implementation support ...	Conditions for status	Status	Reference in Q.2931	Support
Call establishment at the originating interface					
MCn 1	call establishment at the originating interface (outgoing calls from the user's point of view)?		M	5.1/Q.2931	[ ]Yes [ ]No
MCn 1.1	signalling of individual QoS parameters?	R 2.2 R 2.1	O X	6.1	[ ]Yes [ ]No [ ]Yes [ ]No
Call establishment at the destination interface					
MCn 2	call establishment at the destination interface (incoming calls from the user's point of view)?		M	5.2/Q.2931	[ ]Yes [ ]No
MCn 2.1	signalling of individual QoS parameters?	R 2.2 R 2.1	O X	6.1	[ ]Yes [ ]No [ ]Yes [ ]No
Comments:					

A.8.2 Subsidiary capabilities

No items requiring response.

A.8.3 PDUs

No items requiring response.

A.8.4 PDU parameters

A.8.4.1 Information elements in messages received by the network

Table A.12/Q.2965.2 B – Information elements in CONNECT received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn3-IE28	Extended QoS parameters	MCn 2.1 NOT MCn 2.1	M N/A	8.1.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.13/Q.2965.2 B – Information elements in SETUP received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn12-IE28	Extended QoS parameters	MCn 1.1 NOT MCn 1.1	M N/A	8.1.2	[ ]Yes [ ]No [ ]N/A
Comments:					

A.8.4.2 Information elements in messages transmitted by the network

Table A.14/Q.2965.2 B – Information elements in CONNECT transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn3-IE28	Extended QoS parameters	MCn 1.1 NOT MCn 1.1	O N/A	8.1.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.15/Q.2965.2 B – Information elements in SETUP transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn12-IE28	Extended QoS parameters	MCn 2.1 NOT MCn 2.1	O N/A	8.1.2	[ ]Yes [ ]No [ ]N/A
Comments:					

A.8.5 Timers

No items requiring response.

A.8.6 Structure of information elements received

This table is to be completed in order to evaluate the likelihood of successful interoperation of two implementations.

A.8.6.1 End-to-end transit delay

Table A.16/Q.2965.2 B – End-to-end transit delay information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 19.1	Maximum end-to-end transit delay	O		[ ]Yes [ ]No
IERn 19.2	Cumulative transit delay	M		[ ]Yes [ ]No
IERn 19.2	Network generated indicator	O		[ ]Yes [ ]No
Comments:				

A.8.6.2 Extended QoS parameters

Table A.17/Q.2965.2 B – Extended QoS parameters information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 28.1	Origin	M		[ ]Yes [ ]No
	1. Calling user	O	0	[ ]Yes [ ]No
	2. Intermediate network	O	1	[ ]Yes [ ]No
IERn 28.2	Acceptable forward CDV	O		[ ]Yes [ ]No
IERn 28.3	Acceptable backward CDV	O		[ ]Yes [ ]No
IERn 28.4	Cumulative forward CDV	O		[ ]Yes [ ]No
IERn 28.5	Cumulative backward CDV	O		[ ]Yes [ ]No
IERn 28.6	Acceptable forward CLR	O		[ ]Yes [ ]No
IERn 28.7	Acceptable backward CLR	O		[ ]Yes [ ]No
Comments:				

A.8.7 Structure of information elements transmitted

This table is to be completed in order to evaluate the likelihood of successful interoperation of two implementations.

A.8.7.1 End-to-end transit delay

Table A.18/Q.2965.2 B – End-to-end transit delay information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IETn 19.1a	Maximum end-to-end transit delay in SETUP	M		[ ]Yes [ ]No
IETn 19.1b	Maximum end-to-end transit delay in CONNECT	X		[ ]Yes [ ]No
IETn 19.2	Cumulative transit delay	M		[ ]Yes [ ]No
IETn 19.2	Network generated indicator	O		[ ]Yes [ ]No
Comments:				

A.8.7.2 Extended QoS parameters

Table A.19/Q.2965.2 B – Extended QoS parameters information element contents

Item	Does the implementation support the information element field:	Status	Value	Support
IERn 28.1	Origin	M		[ ]Yes [ ]No
	1. Calling user	O	0	[ ]Yes [ ]No
	2. Intermediate network	O	1	[ ]Yes [ ]No
IERn 28.2	Acceptable forward CDV	O		[ ]Yes [ ]No
IERn 28.3	Acceptable backward CDV	O		[ ]Yes [ ]No
IERn 28.4	Cumulative forward CDV	O		[ ]Yes [ ]No
IERn 28.5	Cumulative backward CDV	O		[ ]Yes [ ]No
IERn 28.6	Acceptable forward CLR	O		[ ]Yes [ ]No
IERn 28.7	Acceptable backward CLRV	O		[ ]Yes [ ]No
Comments:				

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