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**Q.2961 B**

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SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for  
access signalling

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**Digital subscriber signalling system No. 2  
(DSS2) – Additional traffic parameters:  
Protocol implementation conformance  
statement (PICS) proforma**

ITU-T Recommendation Q.2961 B

(Formerly CCITT Recommendation)

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

## **ITU-T Recommendation Q.2961 B**

### **Digital subscriber signalling system No. 2 (DSS2) – Additional traffic 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 [7]) of implementations conforming to the procedures for the handling of additional traffic 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 Recommendations of the Q.2961 series [1], [2], [3], [4], [5] and [6].

Other Recommendations of the Q.2961 family specify Test Suite Structure and Test Purposes (TSS & TP) and Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this Recommendation.

NOTE – This Recommendation related to protocol conformance is published only in English; it is based on an external SDO's standard published in English.

#### **Source**

ITU-T Recommendation Q.2961 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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## ITU-T Recommendation Q.2961 B

### Digital subscriber signalling system No. 2 (DSS2) – Additional traffic 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 [7]) of implementations conforming to the procedures for the handling of additional traffic 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 Recommendations of the Q.2961 series [1], [2], [3], [4], [5] and [6].

Other Recommendations of the Q.2961 family specify Test Suite Structure and Test Purposes (TSS & TP) and Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this Recommendation.

This Recommendation is applicable to equipment, supporting capabilities for the indication of traffic parameters above of the peak cell rate at connection request time, 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 any of the Recommendations of the Q.2961 series [1], [2], [3], [4], [5] and [6], is required to complete a copy of the PICS proforma provided in Annex A of the endorsed document as modified by this Recommendation.

NOTE – No PICS proforma is required to be completed for implementation capabilities not covered by this Recommendation. For coverage of capabilities, refer to clause 4.

#### 2 References

The following 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.

- [1] ITU-T Q.2961.1 (1995), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Additional signalling capabilities to support traffic parameters for the tagging option and the sustainable cell rate parameter set.*
- [2] ITU-T Q.2961.2 (1997), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Support of ATM transfer capability in the broadband bearer capability information element.*
- [3] ITU-T Q.2961.3 (1997), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Signalling capabilities to support traffic parameters for the available bit rate (ABR) ATM transfer capability.*

- [4] ITU-T Q.2961.4 (1997), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Signalling capabilities to support traffic parameters for the ATM block transfer (ABT) ATM transfer capability.*
- [5] ITU-T Q.2961.5 (1999), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Additional traffic parameters for cell delay variation tolerance indication.*
- [6] ITU-T Q.2961.6 (1998), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Additional signalling procedures for the support of the SBR2 and SBR3 ATM transfer capabilities.*
- [7] ITU-T I.413 (1993), *B-ISDN user-network interface.*
- [8] ETSI EN 301 068-2 V1.1.3 (2000), *Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification.*

### 3 Endorsement

The text of ETSI EN 301 068-2 [8] was approved by ITU-T as Recommendation Q.2961 B with agreed modifications as given below.

NOTE – Underlining and/or strike-out is used to highlight new or deleted text where detailed indication of modifications is necessary.

### 4 Coverage

This Recommendation covers ITU-T Q.2961.1 [1], Q.2961.2 [2] as modified by ITU-T Q.2961.2 Corrigendum 1 (03/99), Q.2961.3 [3], Q.2961.4 [4], Q.2961.5 [5] and Q.2961.6 [6].

### 5 Modifications

#### 5.1 General

Throughout the text of ETSI EN 301 068-2 [8] replace references and text as shown in the following table:

| Reference in ETSI EN 301 068-2 | Modified reference            |
|--------------------------------|-------------------------------|
| EN 301 068-1                   | Q.2961-series Recommendations |
| EN                             | Recommendation                |
| Standard                       | Recommendation                |

#### Page 4, Intellectual Property Rights

Delete the whole section.

#### Page 4, Foreword

Delete the whole Foreword.

NOTE 1 – It is replaced by the Foreword of this Recommendation.



## **Page 5, Clause 1 Scope**

Replace the whole clause with the following:

### **"1 Scope**

See clause 1 Scope of this Recommendation above."

## **Page 5, Clause 2 References**

Replace references [1] and [3] with the following below:

[1] Void

[3] Void

NOTE 2 – These references are not used in the body of ETSI EN 301 068-2 but in its Scope, which is replaced by the Scope of this Recommendation.

## **Page 21, History**

Delete the whole clause "History".

## **5.2 Abbreviations**

In clause 3.2 "Abbreviations", add the following new abbreviations:

CDVT Cell Delay Variation Tolerance

FRBS Frame Relaying Bearer Service

FRT Fixed Round-trip Time

ICR Initial Cell Rate

MBS Maximum Burst Size

MCR Minimum Cell Rate

PCR Peak Cell Rate

RDF Rate Decrease Factor

RIF Rate Increase Factor

RM Resource Management (cell)

SCR Sustainable Cell Rate

TBE Transient Buffer Exposure

## **5.3 Conventions**

Modify the section "Reference column" of clause A.1.2 "Abbreviations and conventions" as below:

### **Reference column**

"The reference column makes reference to ~~EN 301 068-1 [4], except where explicitly stated otherwise. Whenever reference is made directly to ITU-T Q.2961.x, it means as endorsed by EN 301 068-1 [4].~~"

## 5.4 Additional capabilities

Modify Table A.1 "Roles" of clause A.5 "Roles" as below:

| Item   | Major role:<br>Does the implementation support ...                           | Conditions<br>for status | Status     | Reference | Support  |
|--|--|--------------------------|------------|-----------|--|
| R1.1   | the user role?   |                          | O.1        |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R1.2   | the network role?  |                          | O.1        |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <u>R2.1</u>  | <u>support requirements for the<br/>coincident SB and TB reference point</u> |                          | <u>O.2</u> |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <u>R2.2</u>  | <u>support requirements for the TB<br/>reference point</u>                   |                          | <u>O.2</u> |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| O.1 It is mandatory to support exactly one of these items.             |  |                          |            |           |  |
| <u>O.2 Support of one, and only one, of these options is required.</u> |  |                          |            |           |  |
| Comments:  |  |                          |            |           |  |

Modify Table A.2 "Major capabilities" of clause A.6.1 "Major capabilities":

| Item   | Major capability:<br>Does the implementation ...                               | Conditions<br>for status              | Status                   | Reference       | Support                                 |
|--|--|---------------------------------------|--------------------------|-----------------|---|
| MCu1   | support the DBR ATC?   |                                       | O.2                      | Q.2961.2        | [ ]Yes [ ]No                            |
| MCu2   | support the SBR ATC?   |                                       | O.2                      | Q.2961.2        | [ ]Yes [ ]No                            |
| MCu2.1   | support the SBR configuration 1 (SBR1) ATC?                                    | MCu2<br>NOT M <u>cu</u> 2             | O.3<br>N/A               | Q.2961.2        | [ ]Yes [ ]No<br>[ ] N/A                 |
| MCu2.2   | support the SBR <del>configuration 2 or 3 like</del> (SBR2/3-like) ATC (Note)? | MCu2<br>NOT M <u>cu</u> 2             | O.3<br>N/A               | Q.2961.2        | [ ]Yes [ ]No<br>[ ] N/A                 |
| <u>MCu2.3</u>  | <u>support the SBR configuration 2 (SBR2) ATC?</u>                             | <u>MCu2</u><br><u>NOT M<u>Cu</u>2</u> | <u>O.3</u><br><u>N/A</u> | <u>Q.2961.6</u> | <u>[ ] Yes [ ] No</u><br><u>[ ] N/A</u> |
| <u>MCu2.4</u>  | <u>support the SBR configuration 3 (SBR3) ATC?</u>                             | <u>MCu2</u><br><u>NOT M<u>Cu</u>2</u> | <u>O.3</u><br><u>N/A</u> | <u>Q.2961.6</u> | <u>[ ] Yes [ ] No</u><br><u>[ ] N/A</u> |
| MCu3   | support the ABR ATC?   |                                       | O.2                      | Q.2961.3        | [ ]Yes [ ]No                            |
| MCu4   | support the ABT ATC?   |                                       | O.2                      | Q.2961.4        | [ ]Yes [ ]No                            |
| MCu4.1   | support the ABT with Immediate transmission (ABT-IT) ATC?                      | MCu4<br>NOT M <u>Cu</u> 4             | O.4<br>N/A               | Q.2961.4        | [ ]Yes [ ]No<br>[ ] N/A                 |
| MCu4.2   | support the ABT with delayed transmission (ABT-DT) ATC?                        | MCu4<br>NOT M <u>Cu</u> 4             | O.4<br>N/A               | Q.2961.4        | [ ]Yes [ ]No<br>[ ] N/A                 |
| <u>MCu5</u>  | <u>support the CDVT indication?</u>  |                                       | <u>O.2</u>               | <u>Q.2961.5</u> | <u>[ ] Yes [ ] No</u>                   |
| O.2 The support of at least one of these items is mandatory.   |  |                                       |                          |                 |   |
| O.3 The support of at least one of these items is mandatory.   |  |                                       |                          |                 |   |
| O.4 The support of at least one of these items is mandatory.   |  |                                       |                          |                 |   |
| NOTE – The SBR2/3-like ATC identified in ITU-T Q.2961.2 <del>are</del> <u>is</u> different from SBR2 and SBR3 defined in ITU-T I.371 (see Note 14 to Table A.1/Q.2961.2, published in ITU-T Q.2961.2 Corrigendum 1), <del>in that the Tagging traffic management option applies only locally and the request support applies separately to each direction of the connection. Further, the Broadband traffic capability field coding in the Broadband bearer capability information element are</del> <u>is</u> different. A future version of the present standard will cover the SBR2 and SBR3 ATCs signalling support as specified in ITU-T Recommendation Q.2961.6. |  |                                       |                          |                 |   |
| Comments:  |  |                                       |                          |                 |   |

Modify Table A.3 "Subsidiary capabilities" of clause A.6.2 "Subsidiary capabilities":

| Item  | Subsidiary capability:<br>Does the implementation ...   | Conditions<br>for status | Status   | Reference                    | Support                 |
|---|---|--------------------------|----------|------------------------------|-------------------------|
| SCu1  | recognize additional Broadband bearer capability codepoints received, for backward compatibility with CBR (Note 1)? | MCu1<br>NOT MCu1         | O<br>N/A | 2.6.1<br>[Q.2961.2]          | [ ]Yes [ ]No<br>[ ] N/A |
| SCu2  | recognize additional Broadband bearer capability codepoints received, for backward compatibility with VBR (Note 2)? | MCu2<br>NOT MCu1         | O<br>N/A | 2.6.1<br>[Q.2961.2]          | [ ]Yes [ ]No<br>[ ] N/A |
| SCu3  | handle traffic management options for local support of tagging?   | MCu2.2<br>NOT<br>MCu2.2  | O<br>N/A | <u>1.9.2</u><br>[Q.2961.1]   | [ ]Yes [ ]No<br>[ ] N/A |
| SCu3.1  | send local tagging request in outgoing call request (Note 3)?   | SCu3<br>NOT SCu3         | O<br>N/A | <u>1.9.2.1</u><br>[Q.2961.1] | [ ]Yes [ ]No<br>[ ] N/A |
| SCu.3.2   | indicate local tagging not allowed (Note 4)?  | SCu3<br>NOT SCu3         | O<br>N/A | <u>1.9.2.2</u><br>[Q.2961.1] | [ ]Yes [ ]No<br>[ ] N/A |
| <p>NOTE 1 – Constant Bit Rate (with end-to-end timing required) information transfer capability as supported in the first edition of ITU-T Q.2931.</p> <p>NOTE 2 – Variable Bit Rate (with end-to-end timing required or not required) information transfer capability as supported in the first edition of ITU-T Q.2931.</p> <p>NOTE 3 – If local tagging is requested and indicated as being applied by the network, then <u>an SBR configuration 3 (SBR3) is provided locally. Otherwise SBR configuration 2 (SBR2-like) service</u> is provided with locally tagging.</p> <p>NOTE 4 – If local tagging is not allowed, then <u>an SBR configuration 2 (SBR2-like) service</u> is requested and shall apply locally.</p> |   |                          |          |                              |                         |
| Comments:   |   |                          |          |                              |                         |

Modify Table A.8 "Major capabilities" of clause A.7.1 "Major capabilities":

| Item  | Major capability:<br>Does the implementation ...                               | Conditions<br>for status       | Status                   | Reference       | Support  |
|---|--|--------------------------------|--------------------------|-----------------|--|
| MCn1  | support the DBR ATC?   |                                | O.7                      | Q.2961.2        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| MCn2  | support the SBR ATC?   |                                | O.7                      | Q.2961.2        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| MCn2.1  | support the SBR configuration 1 (SBR1) ATC?                                    | MCn2<br>NOT MCn2               | O.8<br>N/A               | Q.2961.2        | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| MCn2.2  | support the <del>SBR configuration 2 or 3 like (SBR2/3-like)</del> ATC (Note)? | MCn2<br>NOT MCn2               | O.8<br>N/A               | Q.2961.2        | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| <u>MCn2.3</u>   | <u>support the SBR configuration 2 (SBR2) ATC?</u>                             | <u>MCu2</u><br><u>NOT MCu2</u> | <u>O.8</u><br><u>N/A</u> | <u>Q.2961.6</u> | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| <u>MCn2.4</u>   | <u>support the SBR configuration 3 (SBR3) ATC?</u>                             | <u>MCu2</u><br><u>NOT MCu2</u> | <u>O.8</u><br><u>N/A</u> | <u>Q.2961.6</u> | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| MCn3  | support the ABR ATC?   |                                | O.7                      | Q.2961.3        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| MCn4  | support the ABT ATC?   |                                | O.7                      | Q.2961.4        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| MCn4.1  | support the ABT with Immediate transmission (ABT-IT) ATC?                      | MCn4<br>NOT MCn4               | O.9<br>N/A               | Q.2961.4        | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| MCn4.2  | support the ABT with delayed transmission (ABT-DT) ATC?                        | MCn4<br>NOT MCn4               | O.9<br>N/A               | Q.2961.4        | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| <u>MCn5</u>   | <u>support the CDVT indication?</u>  |                                | <u>O.7</u>               | <u>Q.2961.5</u> | <input type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| O.7 The support of at least one of these items is mandatory.  |  |                                |                          |                 |  |
| O.8 The support of at least one of these items is mandatory.  |  |                                |                          |                 |  |
| O.9 The support of at least one of these items is mandatory.  |  |                                |                          |                 |  |
| NOTE – The SBR2-like ATC identified in ITU-T Q.2961.2 <del>are</del> <u>is</u> different from SBR2 and <del>SBR3</del> defined in ITU-T I.371 (see Note 14 to Table A.1/Q.2961.2, published in ITU-T Q.2961.2 Corrigendum 1), <del>in that the Tagging traffic management option applies only locally and the request support applies separately to each direction of the connection.</del> Further, the Broadband traffic capability field coding in the Broadband bearer capability information element <del>are</del> <u>is</u> different. <del>A future version of the present standard will cover the SBR2 and SBR3 ATCs signalling support as specified in ITU T Recommendation Q.2961.6.</del> |  |                                |                          |                 |  |
| Comments:   |  |                                |                          |                 |  |

Modify Table A.9 "Subsidiary capabilities" of clause A.7.2 "Subsidiary capabilities":

| Item   | Subsidiary capability:<br>Does the implementation ...   | Conditions<br>for status | Status   | Reference                    | Support                   |
|--|---|--------------------------|----------|------------------------------|---------------------------|
| SCn1   | recognize additional Broadband bearer capability codepoints received, for backward compatibility with CBR (Note 1)? | MCn1<br>NOT MCn1         | O<br>N/A | 2.6.1<br>[Q.2961.2]          | [ ] Yes [ ] No<br>[ ] N/A |
| SCn2   | recognize additional Broadband bearer capability codepoints received, for backward compatibility with VBR (Note 2)? | MCn2<br>NOT MCn1         | O<br>N/A | 2.6.1<br>[Q.2961.2]          | [ ] Yes [ ] No<br>[ ] N/A |
| SCn3   | handle traffic management options for local support of tagging?   | MCn2.2<br>NOT<br>MCn2.2  | O<br>N/A | <u>1.9.2</u><br>[Q.2961.1]   | [ ] Yes [ ] No<br>[ ] N/A |
| SCn3.1   | send local tagging supported in an incoming call indication (Note 3)?   | SCn3<br>NOT SCn3         | O<br>N/A | <u>1.9.2.2</u><br>[Q.2961.1] | [ ] Yes [ ] No<br>[ ] N/A |
| SCn.3.2  | indicate local tagging not supported (Note 4)?  | SCn3<br>NOT SCn3         | O<br>N/A | <u>1.9.2.1</u><br>[Q.2961.1] | [ ] Yes [ ] No<br>[ ] N/A |
| NOTE 1 – Constant Bit Rate (with end-to-end timing required) information transfer capability as supported in the first edition of ITU-T Q.2931.  |   |                          |          |                              |                           |
| NOTE 2 – Variable Bit Rate (with end-to-end timing required or not required) information transfer capability as supported in the first edition of ITU-T Q.2931.  |   |                          |          |                              |                           |
| NOTE 3 – If local tagging is indicated as being supported by the network and the called user responds with tagging requested, then <u>an SBR configuration 3 (SBR3) is provided locally. Otherwise SBR configuration 2 (SBR2-like) service is provided with shall apply locally tagging.</u> |   |                          |          |                              |                           |
| NOTE 4 – If local tagging is indicated as not being supported, then <u>an SBR configuration 2 (SBR2-like) service is provided locally.</u>   |   |                          |          |                              |                           |
| Comments:  |   |                          |          |                              |                           |

### 5.5 CDVT descriptor IE

Add a new item to Table A.4 "Information elements in the CONNECT message received by the user" of clause A.6.4 "PDU parameters received by the user":

| Item  | CONNECT message received by the user:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support                   |
|-------|--|--------------------------|----------|---------------------|---------------------------|
| IERu6 | CDVT descriptor  | MCu5<br>NOT MCu5         | M<br>N/A | 8.1.1<br>[Q.2961.5] | [ ] Yes [ ] No<br>[ ] N/A |

Add a new item to Table A.5 "Information elements in the SETUP message received by the user" of clause A.6.4 "PDU parameters received by the user":

| Item  | SETUP message received by the user:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|--|--------------------------|----------|---------------------|--|
| IERu7 | CDVT descriptor  | MCu5<br>NOT MCu5         | M<br>N/A | 8.1.2<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

Add a new item to Table A.6 "Information elements in the CONNECT message sent by the user" of clause A.6.5 "PDU parameters sent by the user":

| Item  | CONNECT message sent by the user:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|--|--------------------------|----------|---------------------|--|
| IETu6 | CDVT descriptor  | MCu5<br>NOT MCu5         | O<br>N/A | 8.1.1<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

Add a new item to Table A.7 "Information elements in the SETUP message sent by the user" of clause A.6.5 "PDU parameters sent by the user":

| Item  | SETUP message sent by the user:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|--|--------------------------|----------|---------------------|--|
| IETu7 | CDVT descriptor  | MCu5<br>NOT MCu5         | O<br>N/A | 8.1.2<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

Add a new item to Table A.10 "Information elements in the CONNECT message received by the network" of clause A.7.4 "PDU parameters received by the network":

| Item  | CONNECT message received by the netw:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|--|--------------------------|----------|---------------------|--|
| IERN6 | CDVT descriptor  | MCu5<br>NOT MCu5         | M<br>N/A | 8.1.1<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

Add a new item to Table A.11 "Information elements in the SETUP message received by the network" of clause A.7.4 "PDU parameters received by the network":

| Item  | SETUP message received by the network:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|---|--------------------------|----------|---------------------|--|
| IERN7 | CDVT descriptor   | MCu5<br>NOT MCu5         | M<br>N/A | 8.1.2<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

Add a new item to Table A.12 "Information elements in the CONNECT message sent by the network" of clause A.7.5 "PDU parameters sent by the network":

| Item  | CONNECT message sent by the network:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|---|--------------------------|----------|---------------------|--|
| IETn6 | CDVT descriptor   | MCu5<br>NOT MCu5         | O<br>N/A | 8.1.1<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

Add a new item to Table A.13 "Information elements in the SETUP message sent by the network" of clause A.7.5 "PDU parameters sent by the network":

| Item  | SETUP message sent by the network:<br>Does the implementation support the ... | Conditions<br>for status | Status   | Reference           | Support  |
|-------|---|--------------------------|----------|---------------------|--|
| IETn7 | CDVT descriptor   | MCu5<br>NOT MCu5         | O<br>N/A | 8.1.2<br>[Q.2961.5] | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |

## 5.6 Information elements contents for the user

Add the following new clauses:

### A.6.8 Structure of information elements received

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

#### A.6.8.1 ATM Traffic descriptor

This clause defines a table containing additional codings to Table A.40 "ATM Traffic descriptor information element contents" of ITU-T Q.2931 B. If this PICS proforma is provided by the client together with Q.2931 B, items from IERu4.1 to IERu4.4 may be ignored in the table below. If they are filled in, it shall be identical to the content of Table A.40/Q.2931 B.

**Table A.14/Q.2961 B – ATM Traffic descriptor information element contents**

| Item      | Does the implementation support the<br>information element field: | Status | Value | Support  |
|-----------|---|--------|-------|--|
| IERu 4.1  | Forward PCR (CLP = 0)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.2  | Backward PCR (CLP = 0)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.3  | Forward PCR (CLP = 0 + 1)   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.4  | Backward PCR (CLP = 0 + 1)  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.5  | Forward SCR (CLP = 0) (Note 1)                                    | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.6  | Backward SCR (CLP = 0) (Note 1)                                   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.7  | Forward SCR (CLP = 0 + 1) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.8  | Backward SCR (CLP = 0 + 1) (Note 1)                               | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.9  | Forward MBS (CLP = 0) (Note 1)                                    | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.10 | Backward MBS (CLP = 0) (Note 1)                                   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.11 | Forward MBS (CLP = 0 + 1) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.12 | Backward MBS (CLP = 0 + 1) (Note 1)                               | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |



**Table A.14/Q.2961 B – ATM Traffic descriptor information element contents (end)**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IERu 4.13                                    | Traffic management options (Note 2)                            | O      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. tagging not supported (tagging backward)                    | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. tagging supported (tagging backward)                        | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. tagging not applied (tagging forward)                       | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. tagging applied (tagging forward)                           | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.14                                    | Forward ABR MCR (CLP = 0 + 1) (Note 3)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.15                                    | Backward ABR MCR (CLP = 0 + 1) (Note 3)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.16                                    | Forward RM PCR (Note 4)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 4.17                                    | Backward RM PCR (Note 4)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCu2 is TRUE. |  |        |       |  |
| NOTE 2 – Shall be supported if SCu3 is TRUE. |  |        |       |  |
| NOTE 3 – Shall be supported if MCu3 is TRUE. |  |        |       |  |
| NOTE 4 – Shall be supported if MCu4 is TRUE. |  |        |       |  |
| Comments:                                    |  |        |       |  |

#### A.6.8.2 ABR setup parameters

**Table A.15/Q.2961 B – ABR setup parameters information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IERu 3.1  | Forward ABR ICR (CLP = 0 + 1)                                  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.2  | Backward ABR ICR (CLP = 0 + 1)                                 | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.3  | Forward ABR TBE  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.4  | Backward ABR TBE   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.5  | Cumulative RM FRT  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.6  | Forward RIF  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.7  | Backward RIF   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.8  | Forward RDF  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 3.9  | Backward RDF   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

### A.6.8.3 Broadband bearer capability

**Table A.16/Q.2961 B – Broadband bearer capability information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IERu 16.1                                      | Bearer Class   | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. BCOB-A  | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. BCOB-C  | M      | 3     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. FRBS  | M      | 5     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. BCOB-X  | M      | 16    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 16.2                                      | Broadband transfer capability                                  | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. BTC5  | M      | 5     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. DBR   | M      | 7     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. BTC9  | M      | 9     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. BTC10   | M      | 10    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 5. SBR1 with end-to-end timing not required                    | M      | 11    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 6. SBR1 with end-to-end timing required                        | M      | 19    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 7. BTC10   | M      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 8. BTC9  | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 10. BTC10  | M      | 2     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 11. BTC5   | M      | 4     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 12. BTC5   | M      | 6     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 13. BTC10  | M      | 8     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 14. ABT-DT (Note 1)  | O      | 16    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 15. ABT-IT (Note 1)  | O      | 17    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 16. SBR2 (Note 2)  | O      | 20    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 17. SBR3 (Note 3)  | O      | 21    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 16.3                                      | Susceptibility to clipping                                     | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. not susceptible   | M      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. susceptible   | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 16.4                                      | User plane connection configuration                            | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. point-to-point  | M      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. point-to-multipoint   | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 16.5                                      | User information layer 2 protocol                              | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. Core aspects of Annex A/Q.922                               | M      | 15    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCu4 is TRUE.   |  |        |       |  |
| NOTE 2 – Shall be supported if MCu2.3 is TRUE. |  |        |       |  |
| NOTE 3 – Shall be supported if MCu2.4 is TRUE. |  |        |       |  |
| Comments:                                      |  |        |       |  |

#### A.6.8.4 CDVT descriptor

**Table A.17/Q.2961 B – CDVT descriptor information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IERu 6.1  | Forward $\tau_{PCR}$ (0 + 1)                                   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.2  | Backward $\tau_{PCR}$ (0 + 1)                                  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.1  | Forward $\tau_{SCR}$ (0)                                       | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.2  | Backward $\tau_{SCR}$ (0)                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.1  | Forward $\tau_{SCR}$ (0 + 1)                                   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.2  | Backward $\tau_{SCR}$ (0 + 1)                                  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.1  | Forward $\tau_{PCR}$ (RM)                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 6.2  | Backward $\tau_{PCR}$ (RM)                                     | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

#### A.6.8.5 Minimum acceptable ABR traffic descriptor

**Table A.18/Q.2961 B – Minimum acceptable ABR traffic descriptor information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IERu 5.1                                     | Forward ABR MCR (CLP = 0 + 1) (Note 1)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.2                                     | Backward ABR MCR (CLP = 0 + 1) (Note 1)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.3                                     | Forward SCR (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.4                                     | Backward SCR (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.5                                     | Forward MBS (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.6                                     | Backward MBS (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.7                                     | Forward RM PCR (CLP = 0 + 1) (Note 2)                          | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERu 5.8                                     | Backward RM PCR (CLP = 0 + 1) (Note 2)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCu3 is TRUE. |  |        |       |  |
| NOTE 2 – Shall be supported if MCu4 is TRUE. |  |        |       |  |
| Comments:                                    |  |        |       |  |

#### A.6.9 Structure of information elements sent

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

### A.6.9.1 ATM Traffic descriptor

This clause defines a table containing additional codings to Table A.40 "ATM Traffic descriptor information element contents" of ITU-T Q.2931 B. If this PICS proforma is provided by the client together with Q.2931 B, items from IETu4.1 to IETu4.4 may be ignored in the table below. If they are filled in, it shall be identical to the content of Table A.57/Q.2931 B.

**Table A.19/Q.2961 B – ATM Traffic descriptor information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IETu 4.1   | Forward PCR (CLP = 0)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.2   | Backward PCR (CLP = 0)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.3   | Forward PCR (CLP = 0 + 1)                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.4   | Backward PCR (CLP = 0 + 1)                                     | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.5   | Forward SCR (CLP = 0) (Note 1)                                 | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.6   | Backward SCR (CLP = 0) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.7   | Forward SCR (CLP = 0 + 1) (Note 1)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.8   | Backward SCR (CLP = 0 + 1) (Note 1)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.9   | Forward MBS (CLP = 0) (Note 1)                                 | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.10  | Backward MBS (CLP = 0) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.11  | Forward MBS (CLP = 0 + 1) (Note 1)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.12  | Backward MBS (CLP = 0 + 1) (Note 1)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.13  | Traffic management options (Note 2)                            | O      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. tagging not supported (tagging backward)                    | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. tagging supported (tagging backward)                        | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. tagging not applied (tagging forward)                       | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. tagging applied (tagging forward)                           | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.14  | Forward ABR MCR (CLP = 0 + 1) (Note 3)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.15  | Backward ABR MCR (CLP = 0 + 1) (Note 3)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.16  | Forward RM PCR (Note 4)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 4.17  | Backward RM PCR (Note 4)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCu2 is TRUE.<br>NOTE 2 – Shall be supported if SCu3 is TRUE.<br>NOTE 3 – Shall be supported if MCu3 is TRUE.<br>NOTE 4 – Shall be supported if MCu4 is TRUE. |  |        |       |  |
| Comments:  |  |        |       |  |

## A.6.9.2 ABR setup parameters

**Table A.20/Q.2961 B – ABR setup parameters information element contents in the SETUP message**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IETu 3.1   | Forward ABR ICR (CLP = 0 + 1) (Note)                           | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.2   | Backward ABR ICR (CLP = 0 + 1) (Note)                          | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.3   | Forward ABR TBE (Note)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.4   | Backward ABR TBE (Note)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.5   | Cumulative RM FRT (Note)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.6   | Forward RIF (Note)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.7   | Backward RIF (Note)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.8   | Forward RDF (Note)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.9   | Backward RDF (Note)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE – This parameter is mandatory if R.1.1.2 is TRUE. |  |        |       |  |
| Comments:  |  |        |       |  |

**Table A.21/Q.2961 B – ABR setup parameters information element contents in the CONNECT message**

| Item  | Does the implementation support the information element field: | Status | Value | Support  |
|---|--|--------|-------|--|
| IETu 3.1  | Forward ABR ICR (CLP = 0 + 1) (Note)                           | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.2  | Backward ABR ICR (CLP = 0 + 1) (Note)                          | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.3  | Forward ABR TBE (Note)   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.4  | Backward ABR TBE (Note)  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.5  | Cumulative RM FRT (Note)                                       | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.6  | Forward RIF (Note)   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.7  | Backward RIF (Note)  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.8  | Forward RDF (Note)   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 3.9  | Backward RDF (Note)  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE – This parameter is mandatory when R2.2 is TRUE. |  |        |       |  |
| Comments:   |  |        |       |  |

### A.6.9.3 Broadband bearer capability

**Table A.22/Q.2961 B – Broadband bearer capability information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IETu 16.1                                      | Bearer Class   | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. BCOB-A  | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. BCOB-C  | O      | 3     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. FRBS  | O      | 5     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. BCOB-X  | O      | 16    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 16.2                                      | Broadband transfer capability                                  | O      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. BTC5  | O      | 5     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. DBR   | O      | 7     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. BTC9  | O      | 9     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. BTC10   | O      | 10    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 5. SBR1 with end-to-end timing not required                    | O      | 11    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 6. SBR1 with end-to-end timing required                        | O      | 19    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 7. BTC10   | X      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 8. BTC9  | X      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 10. BTC10  | X      | 2     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 11. BTC5   | X      | 4     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 12. BTC5   | X      | 6     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 13. BTC10  | X      | 8     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 14. ABT-DT (Note 1)  | O      | 16    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 15. ABT-IT (Note 1)  | O      | 17    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 16. SBR2 (Note 2)  | O      | 20    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 17. SBR3 (Note 3)  | O      | 21    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 16.3                                      | Susceptibility to clipping                                     | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. not susceptible   | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. susceptible   | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 16.4                                      | User plane connection configuration                            | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. point-to-point  | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. point-to-multipoint   | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 16.5                                      | User information layer 2 protocol                              | O      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. Core aspects of Annex A/Q.922                               | M      | 15    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCu4 is TRUE.   |  |        |       |  |
| NOTE 2 – Shall be supported if MCu2.3 is TRUE. |  |        |       |  |
| NOTE 3 – Shall be supported if MCu2.4 is TRUE. |  |        |       |  |
| Comments:                                      |  |        |       |  |

#### A.6.9.4 CDVT descriptor

**Table A.23/Q.2961 B – CDVT descriptor information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IETu 6.1  | Forward $\tau_{PCR}$ (0 + 1)                                   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.2  | Backward $\tau_{PCR}$ (0 + 1)                                  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.1  | Forward $\tau_{SCR}$ (0)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.2  | Backward $\tau_{SCR}$ (0)                                      | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.1  | Forward $\tau_{SCR}$ (0 + 1)                                   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.2  | Backward $\tau_{SCR}$ (0 + 1)                                  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.1  | Forward $\tau_{PCR}$ (RM)                                      | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 6.2  | Backward $\tau_{PCR}$ (RM)                                     | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

#### A.6.9.5 Minimum acceptable ABR traffic descriptor

**Table A.24/Q.2961 B – Minimum acceptable ABR traffic descriptor information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IETu 5.1                                     | Forward ABR MCR (CLP = 0 + 1) (Note 1)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.2                                     | Backward ABR MCR (CLP = 0 + 1) (Note 1)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.3                                     | Forward SCR (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.4                                     | Backward SCR (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.5                                     | Forward MBS (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.6                                     | Backward MBS (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.7                                     | Forward RM PCR (CLP = 0 + 1) (Note 2)                          | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETu 5.8                                     | Backward RM PCR (CLP = 0 + 1) (Note 2)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – This parameter is relevant to MCu3. |  |        |       |  |
| NOTE 2 – This parameter is relevant to MCu4. |  |        |       |  |
| Comments:                                    |  |        |       |  |

#### 5.7 Information elements contents for the network

Add the following new clauses:

### A.7.8 Structure of information elements received

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

#### A.7.8.1 ATM Traffic descriptor

This clause defines a table containing additional codings to Table A.110 "ATM Traffic descriptor information element contents" of ITU-T Q.2931 B. If this PICS proforma is provided by the client together with Q.2931 B, items from IERn4.1 to IERn4.4 may be ignored in the table below. If they are filled in, it shall be identical to the content of Table A.110/Q.2931 B.

**Table A.25/Q.2961 B – ATM Traffic descriptor information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IERn 4.1                                     | Forward PCR (CLP = 0)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.2                                     | Backward PCR (CLP = 0)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.3                                     | Forward PCR (CLP = 0 + 1)                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.4                                     | Backward PCR (CLP = 0 + 1)                                     | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.5                                     | Forward SCR (CLP = 0) (Note 1)                                 | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.6                                     | Backward SCR (CLP = 0) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.7                                     | Forward SCR (CLP = 0 + 1) (Note 1)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.8                                     | Backward SCR (CLP = 0 + 1) (Note 1)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.9                                     | Forward MBS (CLP = 0) (Note 1)                                 | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.10                                    | Backward MBS (CLP = 0) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.11                                    | Forward MBS (CLP = 0 + 1) (Note 1)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.12                                    | Backward MBS (CLP = 0 + 1) (Note 1)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.13                                    | Traffic management options (Note 2)                            | O      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. tagging not supported (tagging backward)                    | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. tagging supported (tagging backward)                        | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. tagging not applied (tagging forward)                       | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.13                                    | 4. tagging applied (tagging forward)                           | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  |  |        |       |  |
| IERn 4.14                                    | Forward ABR MCR (CLP = 0 + 1) (Note 3)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.15                                    | Backward ABR MCR (CLP = 0 + 1) (Note 3)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.16                                    | Forward RM PCR (Note 4)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 4.17                                    | Backward RM PCR (Note 4)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCn2 is TRUE. |  |        |       |  |
| NOTE 2 – Shall be supported if SCn3 is TRUE. |  |        |       |  |
| NOTE 3 – Shall be supported if MCn3 is TRUE. |  |        |       |  |
| NOTE 4 – Shall be supported if MCn4 is TRUE. |  |        |       |  |
| Comments:                                    |  |        |       |  |



### A.7.8.2 ABR setup parameters

**Table A.26/Q.2961 B – ABR setup parameters information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IERn 3.1  | Forward ABR ICR (CLP = 0 + 1)                                  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.2  | Backward ABR ICR (CLP = 0 + 1)                                 | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.3  | Forward ABR TBE  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.4  | Backward ABR TBE   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.5  | Cumulative RM FRT  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.6  | Forward RIF  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.7  | Backward RIF   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.8  | Forward RDF  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 3.9  | Backward RDF   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

### A.7.8.3 Broadband bearer capability

**Table A.27/Q.2961 B – Broadband bearer capability information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IERn 16.1 | Bearer Class   | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 1. BCOB-A  | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 2. BCOB-C  | M      | 3     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 3. FRBS  | M      | 5     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 4. BCOB-X  | M      | 16    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 16.2 | Broadband transfer capability                                  | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 1. BTC5  | M      | 5     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 2. DBR   | M      | 7     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 3. BTC9  | M      | 9     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 4. BTC10   | M      | 10    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 5. SBR1 with end-to-end timing not required                    | M      | 11    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 6. SBR1 with end-to-end timing required                        | M      | 19    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 7. BTC10   | M      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 8. BTC9  | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 10. BTC10  | M      | 2     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 11. BTC5   | M      | 4     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 12. BTC5   | M      | 6     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 13. BTC10  | M      | 8     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 14. ABT-DT (Note 1)  | O      | 16    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 15. ABT-IT (Note 1)  | O      | 17    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 16. SBR2 (Note 2)  | O      | 20    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|           | 17. SBR3 (Note 3)  | O      | 21    | <input type="checkbox"/> Yes <input type="checkbox"/> No |

**Table A.27/Q.2961 B – Broadband bearer capability information element contents (end)**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IERn 16.3                                      | Susceptibility to clipping                                     | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. not susceptible   | M      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. susceptible   | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 16.4                                      | User plane connection configuration                            | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. point-to-point  | M      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. point-to-multipoint   | M      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 16.5                                      | User information layer 2 protocol                              | M      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. Core aspects of Annex A/Q.922                               | M      | 15    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCn4 is TRUE.   |  |        |       |  |
| NOTE 2 – Shall be supported if MCn2.3 is TRUE. |  |        |       |  |
| NOTE 3 – Shall be supported if MCn2.4 is TRUE. |  |        |       |  |
| Comments:                                      |  |        |       |  |

#### A.7.8.4 CDVT descriptor

**Table A.28/Q.2961 B – CDVT descriptor information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IERn 6.1  | Forward $\tau_{PCR}(0+1)$                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.2  | Backward $\tau_{PCR}(0+1)$                                     | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.1  | Forward $\tau_{SCR}(0)$  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.2  | Backward $\tau_{SCR}(0)$                                       | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.1  | Forward $\tau_{SCR}(0+1)$                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.2  | Backward $\tau_{SCR}(0+1)$                                     | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.1  | Forward $\tau_{PCR}(RM)$                                       | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 6.2  | Backward $\tau_{PCR}(RM)$                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

### A.7.8.5 Minimum acceptable ABR traffic descriptor

**Table A.29/Q.2961 B – Minimum acceptable ABR traffic descriptor information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IERn 5.1                                     | Forward ABR MCR (CLP = 0 + 1) (Note 1)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.2                                     | Backward ABR MCR (CLP = 0 + 1) (Note 1)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.3                                     | Forward SCR (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.4                                     | Backward SCR (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.5                                     | Forward MBS (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.6                                     | Backward MBS (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.7                                     | Forward RM PCR (CLP = 0 + 1) (Note 2)                          | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IERn 5.8                                     | Backward RM PCR (CLP = 0 + 1) (Note 2)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCn3 is TRUE. |  |        |       |  |
| NOTE 2 – Shall be supported if MCn4 is TRUE. |  |        |       |  |
| Comments:                                    |  |        |       |  |

### A.7.9 Structure of information elements sent

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

#### A.7.9.1 ATM Traffic descriptor

This clause defines a table containing additional codings to Table A.128 "ATM Traffic descriptor information element contents" of ITU-T Q.2931 B. If this PICS proforma is provided by the client together with Q.2931 B, items from IETn4.1 to IETn4.4 may be ignored in the table below. If they are filled in, it shall be identical to the content of Table A.128/Q.2931 B.

**Table A.30/Q.2961 B – ATM Traffic descriptor information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IETn 4.1  | Forward PCR (CLP = 0)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.2  | Backward PCR (CLP = 0)   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.3  | Forward PCR (CLP = 0 + 1)                                      | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.4  | Backward PCR (CLP = 0 + 1)                                     | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.5  | Forward SCR (CLP = 0) (Note 1)                                 | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.6  | Backward SCR (CLP = 0) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.7  | Forward SCR (CLP = 0 + 1) (Note 1)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.8  | Backward SCR (CLP = 0 + 1) (Note 1)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.9  | Forward MBS (CLP = 0) (Note 1)                                 | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.10 | Backward MBS (CLP = 0) (Note 1)                                | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |

**Table A.30/Q.2961 B – ATM Traffic descriptor information element contents (end)**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IETn 4.11  | Forward MBS (CLP = 0 + 1) (Note 1)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.12  | Backward MBS (CLP = 0 + 1) (Note 1)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.13  | Traffic management options (Note 2)                            | O      |       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. tagging not supported (tagging backward)                    | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. tagging supported (tagging backward)                        | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. tagging not applied (tagging forward)                       | O      | 0     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.13  | 4. tagging applied (tagging forward)                           | O      | 1     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  |  |        |       |  |
| IETn 4.14  | Forward ABR MCR (CLP = 0 + 1) (Note 3)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.15  | Backward ABR MCR (CLP = 0 + 1) (Note 3)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.16  | Forward RM PCR (Note 4)  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 4.17  | Backward RM PCR (Note 4)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCn2 is TRUE.<br>NOTE 2 – Shall be supported if SCn3 is TRUE.<br>NOTE 3 – Shall be supported if MCn3 is TRUE.<br>NOTE 4 – Shall be supported if MCn4 is TRUE. |  |        |       |  |
| Comments:  |  |        |       |  |

#### A.7.9.2 ABR setup parameters

**Table A.31/Q.2961 B – ABR setup parameters information element contents in the CONNECT message**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IETn 3.1  | Forward ABR ICR (CLP = 0 + 1)                                  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.2  | Backward ABR ICR (CLP = 0 + 1)                                 | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.3  | Forward ABR TBE  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.4  | Backward ABR TBE   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.5  | Cumulative RM FRT  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.6  | Forward RIF  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.7  | Backward RIF   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.8  | Forward RDF  | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 3.9  | Backward RDF   | M      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

### A.7.9.3 Broadband bearer capability

**Table A.32/Q.2961 B – Broadband bearer capability information element contents**

| Item   | Does the implementation support the information element field: | Status | Value  | Support  |
|--|--|--------|--|--|
| IETn 16.1                                      | Bearer Class   | M      |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. BCOB-A  | O      | 1  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. BCOB-C  | O      | 3  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. FRBS  | O      | 5  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. BCOB-X  | O      | 16   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 16.2                                      | Broadband transfer capability                                  | O      |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. BTC5  | O      | 5  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. DBR   | O      | 7  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 3. BTC9  | O      | 9  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 4. BTC10   | O      | 10   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 5. SBR1 with end-to-end timing not required                    | O      | 11   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  |  | O      | 19   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 6. SBR1 with end-to-end timing required                        | X      | 0  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 7. BTC10   | X      | 1  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 8. BTC9  | X      | 2  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 10. BTC10  | X      | 4  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 11. BTC5   | X      | 6  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 12. BTC5   | X      | 8  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 13. BTC10  | O      | 16   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 14. ABT-DT (Note 1)  | O      | 17   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 15. ABT-IT (Note 1)  | O      | 20   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 16. SBR2 (Note 2)  | O      | 21   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | O  | 21     | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |
| IETn 16.3                                      | Susceptibility to clipping                                     | M      |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. not susceptible   | O      | 0  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. susceptible   | O      | 1  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 16.4                                      | User plane connection configuration                            | M      |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. point-to-point  | O      | 0  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 2. point-to-multipoint   | O      | 1  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 16.5                                      | User information layer 2 protocol                              | O      |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|  | 1. Core aspects of Annex A/Q.922                               | M      | 15   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – Shall be supported if MCn4 is TRUE.   |  |        |  |  |
| NOTE 2 – Shall be supported if MCn2.3 is TRUE. |  |        |  |  |
| NOTE 3 – Shall be supported if MCn2.4 is TRUE. |  |        |  |  |
| Comments:                                      |  |        |  |  |

#### A.7.9.4 CDVT descriptor

**Table A.33/Q.2961 B – CDVT descriptor information element contents**

| Item      | Does the implementation support the information element field: | Status | Value | Support  |
|-----------|--|--------|-------|--|
| IETn 6.1  | Forward $\tau_{PCR}$ (0 + 1)                                   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.2  | Backward $\tau_{PCR}$ (0 + 1)                                  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.1  | Forward $\tau_{SCR}$ (0)                                       | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.2  | Backward $\tau_{SCR}$ (0)                                      | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.1  | Forward $\tau_{SCR}$ (0 + 1)                                   | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.2  | Backward $\tau_{SCR}$ (0 + 1)                                  | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.1  | Forward $\tau_{PCR}$ (RM)                                      | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 6.2  | Backward $\tau_{PCR}$ (RM)                                     | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: |  |        |       |  |

#### A.7.9.5 Minimum acceptable ABR traffic descriptor

**Table A.34/Q.2961 B – Minimum acceptable ABR traffic descriptor information element contents**

| Item   | Does the implementation support the information element field: | Status | Value | Support  |
|--|--|--------|-------|--|
| IETn 5.1                                     | Forward ABR MCR (CLP = 0 + 1) (Note 1)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.2                                     | Backward ABR MCR (CLP = 0 + 1) (Note 1)                        | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.3                                     | Forward SCR (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.4                                     | Backward SCR (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.5                                     | Forward MBS (CLP = 0 + 1) (Note 2)                             | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.6                                     | Backward MBS (CLP = 0 + 1) (Note 2)                            | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.7                                     | Forward RM PCR (CLP = 0 + 1) (Note 2)                          | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| IETn 5.8                                     | Backward RM PCR (CLP = 0 + 1) (Note 2)                         | O      | N/A   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| NOTE 1 – This parameter is relevant to MCn3. |  |        |       |  |
| NOTE 2 – This parameter is relevant to MCn4. |  |        |       |  |
| Comments:                                    |  |        |       |  |

## APPENDIX I

### Bibliography

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