# Annex C[1]
(normative)

# PICS Proforma

## C.1 General

### C.1.1 Symbols used

Status symbols:

M Mandatory.

O Optional to implement. If implemented the feature may or may not be used.

O.<n> Optional but support of at least one of the group of options labelled by the same numeral <n> in this PICS proforma is required.

<index>: This predicate symbol means that the status following it applies only when the PICS states that the feature identified by the index is supported. In the simplest case, <index> is the identifying tag of a single PICS item. <index> may also be a Boolean expression composed of several indices.

<index>:: When this group predicate is true the associated clause should be completed.

Support symbols:

Yes Supported.

No Not supported.

N/A Not applicable.

### C.1.2 Instructions for completing the PICS proforma

The main part of the PICS proforma is a fixed-format questionaire divided into a number of clauses. ANswers to the questionnaire are to be provided in the rightmost column either by simply marking an answer to indicate a restricted choice (such as Yes or No) or by entering a value of a range of values or entering what action is taken.

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

## C.2 Identification

### C.2.1 Implementation identification

| | |
|---|---|
| Supplier | |
| Contact point for queries about the PICS | |
| Implementation Names(s) and Version(s) | |
| Other information necessary for full identification – e.g. name(s) and version(s) of machines and/or operating systems; System Name(s) | |

NOTES

1 Only the first three items are required for all implementations; other information may be completed as appropriate in meeting the requirement for full identification.

2 The terms Name and Version should be interpreted appropriately to correspond with a supplier's terminology (e.g. Type, Series, Model)

### C.2.2 Protocol Summary

| | |
|---|---|
| Identification of protocol specification | ISO/IEC 8073:1992 (E)<br>CCITT X.224 Reference Number: X.224 (1988) |
| Identification of Amendments and Corrigenda to this PICS proforma which have been completed as part of this PICS | ISO/IEC 8073:1992 |
| Protocol Version(s) supported | Version 1 |
| Have any Exception items been reqiured? No [ ] Yes [ ]<br>(The answer Yes means that the implementation does not conform to ISO/IEC 8073:1992/CCITT X.224) | |

| | |
|---|---|
| Date of statement | |

## C.3 Indices used in this annex

## C.4 Based standard/recommendation conformance

| | |
|---|---|
| Does the implementation claim conformance to ISO/IEC 8073? | Yes No |
| Does the implementation claim conformance to CCITT X.224? | Yes No |

## C.5 General statement of conformance

| | | |
|---|---|---|
| ISO | Are all mandatory features of ISO/IEC 8073 implemented? | Yes No |
| CCT | Are all mandatory features of X.224 implemented? | Yes No |

Note – Answering 'No' to this question indicates non-conformance to the International Standard/Recommendation.

## C.6 Protocol implementation

### C.6.1 Annex B – NCMS

| Index | | References | Status | Support |
|---|---|---|---|---|
| A1 | Network connection management procedures | Annex B | O | Yes No |

### C.6.2 Classes implemented

| Index | Class | References | Status | Support |
|---|---|---|---|---|
| C0 | Class 0 | 14 | ISO:O.1<br>CCT:M | Yes No |
| C1 | Class 1 | 14 | C0:O | Yes No |
| C2 | Class 2 | 14 | ISO:O.1<br>CCT:O | Yes No |
| C3 | Class 3 | 14 | C2:O | Yes No |
| C4 | Class 4 operation over CONS | 14 | C2:O | Yes No |
| C4L | Class 4 operation over CLNS | 14 | ISO:C2:O<br>CCT:N/A | Yes No |

## C.7 NCMS functions

| Index | Item | References | Status | Support |
|---|---|---|---|---|
| N2 | Network connection management | B.6.2.1 | O | Yes No |
| N3 | Diagnostic | B.7.6.2, B.7.7 | O | Yes No |
| N4 | Active network connection recovery | B.7.4.2 | O | Yes No |

The following is mandatory if the predicate is true

| Index | Item | References | Status | Support |
|---|---|---|---|---|
| N5 | Pasive network connection recovery | B.7.4.3 | N2 OR N4: M | Yes No |
| N6 | Is an NCM TPDU with assignment right set to RA always rejected with N-DISCONNECT request? | B.6.3 | O | Yes No |

## C.8 Initiator/responder capability for protocol classes 0 - 4

| Index | | References | Status | Support |
|---|---|---|---|---|
| IR1 | Initiating CR TPDU | 14.5 a) | O.2 | Yes No |
| IR2 | Responding to CR TPDU | 14.5 a) | O.2 | Yes No |

## C.9 Supported functions

### C.9.1 Supported functions for class 0 (C0::)

The following functions are mandatory if class 0 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T0F1 | Assignment to network connection when operating over CONS | 6.1.1 | M | Yes |
| T0F2 | TPDU transfer | 6.2 | M | Yes |
| T0F3 | Segmenting | 6.3 | M | Yes |
| T0F4 | Reassembling | 6.3 | M | Yes |
| T0F5 | Connection establishment | 6.5 | M | Yes |
| T0F6 | Connection refusal | 6.6 | M | Yes |
| T0F7 | Normal release when operating over CONS (implicit) | 6.7.1 | M | Yes |
| T0F8 | Error release when operating over CONS | 6.8 | M | Yes |
| T0F9 | Association of TPDUs with Transport connection when operating over CONS | 6.9.1 | M | Yes |
| T0F10 | Treatment of protocol errors when operating over CONS | 6.22.1 | M | Yes |

### C.9.2 Supported functions for class 1 (C1::)

The following functions are mandatory if class 1 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T1F1 | Assignment to network connection when operating over CONS | 6.1.1 | M | Yes |
| T1F2 | TPDU transfer | 6.2 | M | Yes |
| T1F3 | Segmenting | 6.3 | M | Yes |
| T1F4 | Reassembling | 6.3 | M | Yes |
| T1F5 | Separation | 6.4 | M | Yes |
| T1F6 | Connection establishment | 6.5 | M | Yes |
| T1F7 | Connection refusal | 6.6 | M | Yes |
| T1F8 | Normal release when operating over CONS (explicit) | 6.7.1 | M | Yes |
| T1F9 | Association of TPDUs with Transport connections when operating over CONS | 6.9.1 | M | Yes |
| T1F10 | Data TPDU numbering (normal) | 6.10 | M | Yes |
| T1F11 | Expedited data transfer when operating over CONS (Network normal) | 6.11.1 | M | Yes |
| T1F12 | Reassignment after failure when operating over CONS | 6.12 | M | Yes |
| T1F13 | Retention and acknowledgement of TPDUs<br>Retention until acknowledgement of TPDUs (AK) | 6.13.4.1 | M | Yes |
| T1F14 | Resynchronization | 6.14 | M | Yes |
| T1F15 | Frozen references | 6.18 | M | Yes |
| T1F16 | Treatment of protocol errors when operating over CONS | 6.22.1 | M | Yes |

The following functions are mandatory if class 1 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T1F17 | Concatenation | 6.4 | O | Yes No |
| T1F18 | Expedited data transfer when operating over CONS (Network expedited) | 6.11.1 | O | Yes No |
| T1F19 | Retention and acknowledgement of TPDUs<br>Confirmation of Receipt | 6.13.4.2 | not T1F20: O | Yes No |
| T1F20 | Retention and acknowledgement of TPDUs<br>Use of request acknowledgement | 6.13.4.3 | not T1F19: O | Yes No |

### C.9.3 Supported functions for class 2 (C2::)

The following functions are mandatory if class 2 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T2F1 | Assignment to network connection when operating over CONS | 6.1.1 | M | Yes |
| T2F2 | TPDU transfer | 6.2 | M | Yes |
| T2F3 | Segmenting | 6.3 | M | Yes |
| T2F4 | Reassembling | 6.3 | M | Yes |
| T2F5 | Separation | 6.4 | M | Yes |
| T2F6 | Connection establishment | 6.5 | M | Yes |
| T2F7 | Connection refusal | 6.6 | M | Yes |
| T2F8 | Normal release when operating over CONS (explicit) | 6.7.1 | M | Yes |
| T1F9 | Error release when operating over CONS | 6.8 | M | Yes |
| T2F10 | Association of TPDUs with Transport connections when operating over CONS | 6.9.1 | M | Yes |
| T2F11 | Data TPDU numbering (normal) | 6.10 | M | Yes |
| T2F12 | Expedited data transfer when operating over CONS (Network normal) | 6.11.1 | M | Yes |
| T2F13 | Demultiplexing when operating over CONS | 6.15 | M | Yes |
| T2F14 | Explicit flow control (with) | 6.16 | M | Yes |
| T2F15 | Treatment of protocol errors when operating over CONS | 6.22.1 | M | Yes |
| T2F16 | Multiplexing when operating over CONS | 6.15 | M | Yes |

The following functions or elements of procedure are optional if class 2 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T2F17 | Concatenation | 6.4 | O | Yes No |
| T2F18 | Data TPDU numbering (extended) | 6.10 | O | Yes No |
| T2F19 | Expedited flow control (without) | 6.16 | O | Yes No |

### C.9.4 Supported functions for class 3 (C3::)

The following functions are mandatory if class 3 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T3F1 | Assignment to network connection when operating over CONS | 6.1.1 | M | Yes |
| T3F2 | TPDU transfer | 6.2 | M | Yes |
| T3F3 | Segmenting | 6.3 | M | Yes |
| T3F4 | Reassembling | 6.3 | M | Yes |
| T3F5 | Separation | 6.4 | M | Yes |
| T3F6 | Connection establishment | 6.5 | M | Yes |
| T3F7 | Connection refusal | 6.6 | M | Yes |
| T3F8 | Normal release when operating over CONS (explicit) | 6.7.1 | M | Yes |
| T3F9 | Association of TPDUs with Transport connections when operating over CONS | 6.9.1 | M | Yes |
| T3F10 | Data TPDU numbering (normal) | 6.10 | M | Yes |
| T3F11 | Expedited data transfer when operating over CONS (Network normal) | 6.11.1 | M | Yes |
| T3F12 | Reassignment after failure when operating over CONS | 6.12 | M | Yes |
| T3F13 | Retention and acknowledgement of TPDUs<br>Retention until acknowledgement of TPDUs (AK) | 6.13.4.1 | M | Yes |
| T3F14 | Resynchronization | 6.14 | M | Yes |
| T3F15 | Demultiplexing when operating over CONS | 6.15 | M | Yes |
| T3F16 | Explicit flow control | 6.16 | M | Yes |
| T3F17 | Frozen references | 6.18 | M | Yes |
| T3F18 | Treatment of protocol errors when operating over CONS | 6.22.1 | M | Yes |
| T3F19 | Multiplexing when operating over CONS | 6.15 | M | Yes |

The following functions are optional if class 3 is supported

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T3F20 | Concatenation | 6.4 | O | Yes No |
| T3F21 | Data TPDU numbering (extended) | 6.10 | O | Yes No |
| T3F22 | Retention and acknowledgement of TPDUs<br>Use of request acknowledgement | 6.13.4.3 | O | Yes No |

### C.9.5 Supported functions for class 4 (C4 or C4L::)

The following functions are mandatory

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T4F1 | TPDU transfer | 6.2 | M | Yes |
| T4F2 | Segmenting | 6.3 | M | Yes |
| T4F3 | Reassembling | 6.3 | M | Yes |
| T4F4 | Separation | 6.4 | M | Yes |
| T4F5 | Connection establishment | 6.5 | M | Yes |
| T4F6 | Connection refusal | 6.6 | M | Yes |
| T4F7 | Data TPDU numbering (normal) | 6.10 | M | Yes |
| T4F8 | Retention and acknowledgement of TPDUs<br>Retention until acknowledgement of TPDUs (AK) | 6.13.4.1 | M | Yes |
| T4F9 | Explicit flow control | 6.16 | M | Yes |
| T4F10 | Checksum | 6.17 | M | Yes |
| T4F11 | Frozen references | 6.18 | M | Yes |
| T4F12 | Retransmission on time-out | 6.19 | M | Yes |
| T4F13 | Resequencing | 6.20 | M | Yes |
| T4F14 | Inactivity control | 6.21 | M | Yes |

The following functions are mandatory if class 4 is operated over CONS

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T4F15 | Assignment to network connection when operating over CONS | 6.1.1 | M | Yes |
| T4F16 | Normal release when operating over CONS (explicit) | 6.7.1 | M | Yes |
| T4F17 | Association of TPDUs with Transport connections when operating over CONS | 6.9.1 | M | Yes |
| T4F18 | Expedited data transfer when operating over CONS (Network normal) | 6.11.1 | M | Yes |
| T4F19 | Multiplexing when operating over CONS | 6.15 | M | Yes |
| T4F20 | Demultiplexing when operating over CONS | 6.15 | M | Yes |
| T4F21 | Treatment of protocol errors when operating over CONS | 6.22.1 | M | Yes |
| T4F22 | Recombining when operating over CONS | 6.23 | M | Yes |

The following functions are mandatory if class 4 is operated over CLNS

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T4F23 | Transmission over CLNS | 6.1.2 | M | Yes |
| T4F24 | Normal release when operating over CLNS (explicit) | 6.7.2 | M | Yes |
| T4F25 | Association of TPDUs with Transport connection when operating over CLNS | 6.9.2 | M | Yes |
| T4F26 | Expedited data transfer when operating over CLNS (Network normal) | 6.11.2 | M | Yes |
| T4F27 | Treatment of protocol errors when operating over CLNS | 6.22.2 | M | Yes |

The following functions are optional

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T4F28 | Data TPDU numbering (extended) | 6.10 | O | Yes No |
| T4F29 | Non-use of checksum | 6.17 | O | Yes No |
| T4F30 | Concatenation | 6.4 | O | Yes No |
| T4F31 | Retention and acknowledgement of TPDUs<br>Use of selective acknowledgement | 6.13.4.4 | O | Yes No |
| T3F32 | Retention and acknowledgement of TPDUs<br>Use of request acknowledgement | 6.13.4.3 | O | Yes No |

The following functions are optional if class 4 is operated over CONS

| Index | Function | References | Status | Support |
|---|---|---|---|---|
| T4F33 | Splitting when operating over CONS | 6.23 | O | Yes No |

## C.10 Supported TPDUs

The following TPDUs and the parameters which constitute their fixed parts are mandatory if a corresponding predicate in the status column is true

| Index | TPDUs | | References | Status | Support |
|---|---|---|---|---|---|
| ST1 | CR | supported on transmission | 13.1 | IR1:M | Yes No |
| ST2 | CR | supported on receipt | 13.1 | IR2:M | Yes No |
| ST3 | CC | supported on transmission | 13.1 | IR2:M | Yes No |
| ST4 | CC | supported on receipt | 13.1 | IR1:M | Yes No |
| ST5 | DR | supported on transmission | 13.1 | IR2:M | Yes No |
| ST6 | DR | supported on receipt | 13.1 | IR1:M | Yes No |
| ST7 | DC | supported on transmission | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST8 | DC | supported on receipt | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST9 | DT | supported on transmission | 13.1 | M | Yes |
| ST10 | DT | supported on receipt | 13.1 | M | Yes |
| ST11 | ED | supported on transmission | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST12 | ED | supported on receipt | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST13 | AK | supported on transmission | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST14 | AK | supported on receipt | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST15 | EA | supported on transmission | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST16 | EA | supported on receipt | 13.1 | C1 OR C2 OR C3 OR C4 OR C4L:M | Yes No |
| ST17 | RJ | supported on transmission | 13.1 | C1 OR C3:M | Yes No |
| ST18 | RJ | supported on receipt | 13.1 | C1 OR C3:M | Yes No |
| ST19 | ER | supported on receipt | 13.1 | M | Yes |

State for which classes, if any, ER is supported on transmission

| Index | Class | References | Status | Support |
|---|---|---|---|---|
| SER0 | Class 0 | 6.22.1 | O | Yes No |
| SER1 | Class 1 | 6.22.1 | O | Yes No |
| SER2 | Class 2 | 6.22.1 | O | Yes No |
| SER3 | Class 3 | 6.22.1 | O | Yes No |
| SER4 | Class 4 over CONS | 6.22 | O | Yes No |
| SER4L | Class 4 over CLNS | 6.22 | O | Yes No |

The following TPDUs are mandatory if a corresponding predicate in the status column is true.

| Index | TPDUs | | References | Status | Support |
|---|---|---|---|---|---|
| SN3 | NCM | supported on transmission | B.8.1 | N2:M | Yes No |
| SN4 | NCM | supported on receipt | B.8.1 | N2:M | Yes No |
| SN5 | DIAG | supported on transmission | B.8.1 | N3:M | Yes No |
| SN6 | DIAG | supported on receipt | B.8.1 | N3:M | Yes No |
| SN7 | NCMC | supported on transmission | B.8.1 | SN4 AND NOT N6:M | Yes No |
| SN8 | NCMC | supported on receipt | B.8.1 | P1:M | Yes No |

P1: SN3 and the only supported value in IC5 is "receiver".

## C.11 Supported parameters of issued TPDUs

### C.11.1 Supported parameters for NCMS (A1::)

#### C.11.1.2 NCM TPDU (SN3::)

What are the allowed values of the following parameters for a NCM TPDU?

| Index | Supported parameters | References | Allowed values | Supported values |
|---|---|---|---|---|
| IC1 | NC-type | B.8.3.3 c) | New, My, Yours | |
| IC2 | NC-preference | B.8.3.3 d) | Highest, Medium, Lowest | |
| IC3 | NC-collision | B.8.3.3 e) | Resolution | |
| IC4 | NC-recovery | B.8.3.3 f) | Do not, Do | |
| IC5 | NC-assignment right | B.8.3.3 g) | Receiver, Sender, All | |

### C.11.2 Parameter values for CR TPDU (C1:: OR C2:: OR C3:: OR C4:: or C4L::)

If the additional options selection parameter is issued in a CR TPDU it is mandatory that

| Index | | References |
|---|---|---|
| ICR1 | Bits 8 and 7 shall be set to zero | 13.3.4 g) |

If the preferred class in the CR is 2, 3 or 4

| Index | | References | Status | Support |
|---|---|---|---|---|
| ICR2 | Is class 0 always offered as an alternative class? | 14.4 | O<br>CCT:M | Yes No<br>Yes No |

### C.11.3 Supported parameters for class 0 TPDUs (C0::)

The following parameters are optional if a CR TPDU is issued with preferred class 0

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I0CR6 | Called TSAP-ID | 13.3.4 a) | O | Yes No |
| I0CR7 | Calling TSAP-ID | 13.3.4 a) | O | Yes No |
| I0CR8 | TPDU size | 13.3.4 b) | O | Yes No |
| I0CR9 | Preferred maximum TPDU size | 13.3.4 c) | O | Yes No |

The following parameters are optional if a CC TPDU is issued in class 0

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I0CC6 | Called TSAP-ID | 13.4.4 | O | Yes No |
| I0CC7 | Calling TSAP-ID | 13.4.4 | O | Yes No |
| I0CC8 | TPDU size | 13.4.4 | O | Yes No |
| I0CC9 | Preferred maximum TPDU size | 13.4.4 | I0CR9:O | Yes No |

The following parameter is optional if a DR TPDU is issued in class 0

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I0DR4 | Additional information | 13.5.4 a) | O | Yes No |

### C.11.4 Supported parameters for class 1 TPDUs (C1::)

The following parameters are optional if a CR TPDU is issued with preferred class 1

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I1CR6 | Called TSAP-ID | 13.3.4 a) | O | Yes No |
| I1CR7 | Calling TSAP-ID | 13.3.4 a) | O | Yes No |
| I1CR8 | TPDU size | 13.3.4 b) | O | Yes No |
| I1CR9 | Version number | 13.3.4 d) | O | Yes No |
| I1CR10 | Protection parameters | 13.3.4 e) | O | Yes No |
| I1CR11 | Additional option selection | 13.3.4 g) | O | Yes No |
| I1CR12 | Alternative protocol class | 13.3.4 h) | O | Yes No |
| I1CR13 | Throughput | 13.3.4 k) | O | Yes No |
| I1CR14 | Residual error rate | 13.3.4 m) | O | Yes No |
| I1CR15 | Priority | 13.3.4 n) | O | Yes No |
| I1CR16 | Transit delay | 13.3.4 p) | O | Yes No |
| I1CR17 | Reassignment time | 13.3.4 q) | O | Yes No |
| I1CR18 | Preferred maximum TPDU size | 13.3.4 c) | O | Yes No |

The following parameters are optional if a CC TPDU is issued in class 1

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I1CC6 | Called TSAP-ID | 13.4.4 | O | Yes No |
| I1CC7 | Calling TSAP-ID | 13.4.4 | O | Yes No |
| I1CC8 | TPDU size | 13.4.4 | O | Yes No |
| I1CC9 | Protection parameters | 13.4.4 | O | Yes No |
| I1CC10 | Additional option selection | 13.4.4 | O | Yes No |
| I1CC11 | Throughput | 13.4.4 | O | Yes No |
| I1CC12 | Residual error rate | 13.4.4 | O | Yes No |
| I1CC13 | Priority | 13.4.4 | O | Yes No |
| I1CC14 | Transit delay | 13.4.4 | O | Yes No |
| I1CC15 | Preferred maximum TPDU size | 13.4.4 | I1CR18:O | Yes No |

The following parameter is optional if a DR TPDU is issued in class 1

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I1DR4 | Additional information | 13.5.4 a) | O | Yes No |

The following parameter is optional if a ER TPDU is issued in class 1

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I1ER3 | Invalid TPDU | 13.12.4 a) | O | Yes No |

The following parameter is mandatory in a DT TPDU if request of acknowledgement has been selected

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I1DT4 | ROA | 13.7.3 a) | M | Yes No |

### C.11.5 Supported parameters for class 2 TPDUs (C2::)

The following parameters are optional if a CR TPDU is issued with preferred class 2

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I2CR6 | Called TSAP-ID | 13.3.4 a) | O | Yes No |
| I2CR7 | Calling TSAP-ID | 13.3.4 a) | O | Yes No |
| I2CR8 | TPDU size | 13.3.4 b) | O | Yes No |
| I2CR9 | Version number | 13.3.4 d) | O | Yes No |
| I2CR10 | Protection parameters | 13.3.4 e) | O | Yes No |
| I2CR11 | Additional option selection | 13.3.4 g) | O | Yes No |
| I2CR12 | Alternative protocol class | 13.3.4 h) | O | Yes No |
| I2CR13 | Throughput | 13.3.4 k) | O | Yes No |
| I2CR14 | Residual error rate | 13.3.4 m) | O | Yes No |
| I2CR15 | Priority | 13.3.4 n) | O | Yes No |
| I2CR16 | Transit delay | 13.3.4 p) | O | Yes No |
| I2CR17 | Preferred maximum TPDU size | 13.3.4 c) | O | Yes No |

The following parameters are optional if a CC TPDU is issued in class 2

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I2CC6 | Called TSAP-ID | 13.4.4 | O | Yes No |
| I2CC7 | Calling TSAP-ID | 13.4.4 | O | Yes No |
| I2CC8 | TPDU size | 13.4.4 | O | Yes No |
| I2CC9 | Protection parameters | 13.4.4 | O | Yes No |
| I2CC10 | Additional option selection | 13.4.4 | O | Yes No |
| I2CC11 | Throughput | 13.4.4 | O | Yes No |
| I2CC12 | Residual error rate | 13.4.4 | O | Yes No |
| I2CC13 | Priority | 13.4.4 | O | Yes No |
| I2CC14 | Transit delay | 13.4.4 | O | Yes No |
| I2CC15 | Preferred maximum TPDU size | 13.4.4 | I2CR17:O | Yes No |

The following parameter is optional if a DR TPDU is issued in class 2

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I2DR4 | Additional information | 13.5.4 a) | O | Yes No |

The following parameter is optional if an ER TPDU is issued in class 2

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I2ER3 | Invalid TPDU | 13.12.4 a) | O | Yes No |

### C.11.6 Supported parameters for class 3 TPDUs (C3::)

The following parameters are optional if a CR TPDU is issued with preferred class 3

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I3CR6 | Called TSAP-ID | 13.3.4 a) | O | Yes No |
| I3CR7 | Calling TSAP-ID | 13.3.4 a) | O | Yes No |
| I3CR8 | TPDU size | 13.3.4 b) | O | Yes No |
| I3CR9 | Version number | 13.3.4 d) | O | Yes No |
| I3CR10 | Protection parameters | 13.3.4 e) | O | Yes No |
| I3CR11 | Additional option selection | 13.3.4 g) | O | Yes No |
| I3CR12 | Alternative protocol class | 13.3.4 h) | O | Yes No |
| I3CR13 | Throughput | 13.3.4 k) | O | Yes No |
| I3CR14 | Residual error rate | 13.3.4 m) | O | Yes No |
| I3CR15 | Priority | 13.3.4 n) | O | Yes No |
| I3CR16 | Transit delay | 13.3.4 p) | O | Yes No |
| I3CR17 | Reassignment time | 13.3.4 q) | O | Yes No |
| I3CR18 | Preferred maximum TPDU size | 13.3.4 c) | O | Yes No |

The following parameters are optional if a CC TPDU is issued in class 3

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I3CC6 | Called TSAP-ID | 13.4.4 | O | Yes No |
| I3CC7 | Calling TSAP-ID | 13.4.4 | O | Yes No |
| I3CC8 | TPDU size | 13.4.4 | O | Yes No |
| I3CC9 | Protection parameters | 13.4.4 | O | Yes No |
| I3CC10 | Additional option selection | 13.4.4 | O | Yes No |
| I3CC11 | Throughput | 13.4.4 | O | Yes No |
| I3CC12 | Residual error rate | 13.4.4 | O | Yes No |
| I3CC13 | Priority | 13.4.4 | O | Yes No |
| I3CC14 | Transit delay | 13.4.4 | O | Yes No |
| I3CC15 | Preferred maximum TPDU size | 13.4.4 | I3CR18:O | Yes No |

The following parameter is optional if a DR TPDU is issued in class 3

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I3DR4 | Additional information | 13.5.4 a) | O | Yes No |

The following parameter is optional if a ER TPDU is issued in class 3

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I3ER3 | Invalid TPDU | 13.12.4 a) | O | Yes No |

The following parameter is mandatory in a DT TPDU if request of acknowledgement has been selected

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I3DT4 | ROA | 13.7.3 a) | M | Yes No |

### C.11.7 Supported parameters for class 4 TPDUs (C4 OR C4L::)

The following parameters are optional if a CR TPDU is issued with preferred class 4

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I4CR7 | Called TSAP-ID | 13.3.4 a) | O | Yes No |
| I4CR8 | Calling TSAP-ID | 13.3.4 a) | O | Yes No |
| I4CR9 | TPDU size | 13.3.4 b) | O | Yes No |
| I4CR10 | Version number | 13.3.4 d) | O | Yes No |
| I4CR11 | Protection parameters | 13.3.4 e) | O | Yes No |
| I4CR12 | Additional option selection | 13.3.4 g) | O | Yes No |
| I4CR13 | Throughput | 13.3.4 k) | O | Yes No |
| I4CR14 | Residual error rate | 13.3.4 m) | O | Yes No |
| I4CR15 | Priority | 13.3.4 n) | O | Yes No |
| I4CR16 | Transit delay | 13.3.4 p) | O | Yes No |
| I4CR17 | Acknowledge time | 13.3.4 j) | O | Yes No |
| I4CR18 | Preferred maximum TPDU size | 13.3.4 c) | O | Yes No |
| I4CR19 | Inactivity time | 13.3.4 r) | O | Yes No |

The following parameters are optional if a CR TPDU is issued with preferred class 4 over CONS

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4CR20 | Alternative protocol class | 13.3.4 h) | O | Yes No |

The following parameters are optional if a CC TPDU is issued in class 4

| Index | Supported parameters | References | Status | Support |
|---|---|---|---|---|
| I4CC6 | Called TSAP-ID | 13.4.4 | O | Yes No |
| I4CC7 | Calling TSAP-ID | 13.4.4 | O | Yes No |
| I4CC8 | TPDU size | 13.4.4 | O | Yes No |
| I4CC9 | Protection parameters | 13.4.4 | O | Yes No |
| I4CC10 | Additional option selection | 13.4.4 | O | Yes No |
| I4CC11 | Acknowledge time | 13.4.4 | O | Yes No |
| I4CC12 | Throughput | 13.4.4 | O | Yes No |
| I4CC13 | Residual error rate | 13.4.4 | O | Yes No |
| I4CC14 | Priority | 13.4.4 | O | Yes No |
| I4CC15 | Transit delay | 13.4.4 | O | Yes No |
| I4CC16 | Preferred maximum TPDU size | 13.4.4 | I4CR18:O | Yes No |
| I4CC17 | Inactivity time | 13.4.4 | O | Yes No |

The following parameter is optional if a DR TPDU is issued in class 4

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4DR4 | Additional information | 13.5.4 a) | O | Yes No |

The following parameter is mandatory in a DT TPDU if request of acknowledgement has been selected

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4DT4 | ROA | 13.7.3 a) | M | Yes No |

The following parameter is mandatory in an AK TPDU if issued in class 4

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4AK4 | Flow control confirmation | 13.9.4 c) | O | Yes No |

If the implementation can reduce credit and does so in the manner outlined in ISO/IEC 8073 clause 12.2.3.8.2 then subsequence number in AK TPDUs is mandatory. Otherwise complete item I4AK5

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4AK5 | Subsequence number | 13.9.4 b) | O | Yes No |

The following parameter is optional in an AK TPDU if selective acknowledgement has been negotiated.

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4AK6 | Selective acknowledgement parameters | 13.9.4 d) | O | Yes No |

The following parameter is optional if an ER TPDU is issued in class 4

| Index | Supported parameter | References | Status | Support |
|---|---|---|---|---|
| I4ER3 | Invalid TPDU | 13.12.4 a) | O | Yes No |

## C.12 Supported parameters for received TPDUs

Implementors should be aware that implementations shall be capable of receiving and processing all possible parameters for all possible TPDUs, dependent upon the class and optional functions implemented.

### C.12.1 Supported parameters for NCMS (A1::)

#### C.12.1.2 NCM TPDU (SN4::)

What are the allowed receive values of the following parameters for a NCM TPDU?

| Index | Supported parameters | References | Allowed values | Supported values |
|---|---|---|---|---|
| RN1 | NC-type | B.8.3.3 c) | New, My, Yours | |
| RN2 | NC-preference | B.8.3.3 d) | Highest, Medium, Lowest | |
| RN3 | NC-collision | B.8.3.3 e) | Resolution | |
| RN4 | NC-recovery | B.8.3.3 f) | Do not, Do | |
| RN5 | NC-assignment right | B.8.3.3 g) | Receiver, Sender, All | |

### C.12.2 TPDUs in class 4 (C4 OR C4L::)

If use of checksum has been selected then it is mandatory to process a checksum parameter in the following TPDUs

| Index | TPDUs | References | Status | Support |
|---|---|---|---|---|
| R4CCch | CC TPDU | 13.4.4 | M | Yes |
| R4DRch | DR TPDU | 13.5.4 b) | M | Yes |
| R4DCch | CD TPDU | 13.6.4 | M | Yes |
| R4DTch | DT TPDU | 13.7.4 | M | Yes |
| R4EDch | ED TPDU | 13.8.4 | M | Yes |
| R4AKch | AK TPDU | 13.9.4 a) | M | Yes |
| R4EAch | EA TPDU | 13.10.4 | M | Yes |
| R4ERch | ER TPDU | 13.12.4 b) | M | Yes |

## C.13 User data in issued TPDUs

A TS-user may issue data with a T-CONNECT request, T-CONNECT response or T-DISCONNECT request. Then it shall be possible to send user data as follows:

### C.13.1 Class 1 (C1::)

| Index | User data | References | Status | Support |
|---|---|---|---|---|
| D1ICR | User data of up to 32 octets in a CR with preferred class 1 | 13.3.5 | M | Yes |
| D1ICC | User data of up to 32 octets in a CC | 13.4.5 | M | Yes |
| D1IDR | User data of up to 64 octets in a DR | 13.5.5 | M | Yes |

### C.13.2 Class 2 (C2::)

| Index | User data | References | Status | Support |
|---|---|---|---|---|
| D2ICR | User data of up to 32 octets in a CR with preferred class 1 | 13.3.5 | M | Yes |
| D2ICC | User data of up to 32 octets in a CC | 13.4.5 | M | Yes |
| D2IDR | User data of up to 64 octets in a DR | 13.5.5 | M | Yes |

### C.13.3 Class 3 (C3::)

| Index | User data | References | Status | Support |
|---|---|---|---|---|
| D3ICR | User data of up to 32 octets in a CR with preferred class 1 | 13.3.5 | M | Yes |
| D3ICC | User data of up to 32 octets in a CC | 13.4.5 | M | Yes |
| D3IDR | User data of up to 64 octets in a DR | 13.5.5 | M | Yes |

### C.13.4 Class 4 (C4 or C4L::)

| Index | User data | References | Status | Support |
|---|---|---|---|---|
| D4ICR | User data of up to 32 octets in a CR with preferred class 1 | 13.3.5 | M | Yes |
| D4ICC | User data of up to 32 octets in a CC | 13.4.5 | M | Yes |
| D4IDR | User data of up to 64 octets in a DR | 13.5.5 | M | Yes |

## C.14 User data in received TPDUs

For classes 1 to 4, if it is possible to initiate a CR TPDU then it shall be possible to receive the following.

| Index | User data | References |
|---|---|---|
| DRCC | 32 octets of user data in a CC TPDU | 13.4.5 |
| DRDR | 64 octets of user data in a DR TPDU | 13.5.5 |

For classes 1 to 4, if it is possible to respond to a CR TPDU then it shall be possible to receive the following.

| Index | User data | References |
|---|---|---|
| DRCR | 32 octets of user data in a CR TPDU | 13.3.5 |

## C.15 Negotiation

### C.15.1 Class negotiation – initiator

If it is possible to initiate a CR TPDU in a particular class then the following holds.

| Index | | References |
|---|---|---|
| NC | The preferred class in the CR TPDU may contain any of the classes supported by the implementation | 6.5.4 h) |

What class(es) is (are) contained in the alternative class parameter if the preferred class is:

| Index | Preferred class | References | Allowed values | Supported values |
|---|---|---|---|---|
| NAC1 | Class 1 | 6.5.4 h) | None, 0, 1 | |
| NAC2 | Class 2 | 6.5.4 h) | None, 0, 2 | |
| NAC3 | Class 3 | 6.5.4 h) | None, 0, 1, 2, 3 | |
| NAC4 | Class 4 over CONS | 6.5.4 h) | None, 0, 1, 2, 3, 4 | |
| NAC5 | Class 4 over CLNS | 6.5.5 h) | None | |

### C.15.2 Class negotiation – responder

| Index | Preferred class | References | Allowed response | Supported response |
|---|---|---|---|---|
| RC0 | What classes can you respond with if CR proposes only class 0? | 6.5.4 h) Table 3 | 0 or connection refused depending on classes supported | |
| RC1 | What classes can you respond with if CR proposes only class 1? | 6.5.4 h) Table 3 | 0, 1 or connection refused depending on classes supported | |
| RC1a | What classes can you respond with if CR proposes class 1 as preferred class and the alternative class parameter is present? | 6.5.4 h) Table 3 | 0, 1 or connection refused depending on classes supported | |
| RC2 | What classes can you respond with if CR proposes only class 2? | 6.5.4 h) Table 3 | 2 or connection refused depending on classes supported | |
| RC2a | What classes can you respond with if CR proposes class 2 as preferred class and the alternative class parameter is present? | 6.5.4 h) Table 3 | 0, 2 or connection refused depending on classes supported and coding of alternative class | |
| RC3 | What classes can you respond with if CR proposes only class 3? | 6.5.4 h) Table 3 | 2, 3 or connection refused depending on classes supported | |
| RC3a | What classes can you respond with if CR proposes class 3 as preferred class and the alternative class parameter is present? | 6.5.4 h) Table 3 | 0, 1, 2, 3 or connection refused depending on classes supported and coding of alternative class | |
| RC4 | What classes can you respond with if CR proposes only class 4? | 6.5.4 h) Table 3 | 2, 4 or connection refused depending on classes supported | |
| RC4a | What classes can you respond with if CR proposes class 4 as preferred class and the alternative class parameter is present? | 6.5.4 h) Table 3 | 0, 1, 2, 3, 4 or connection refused depending on classes supported and coding of alternative class | |

### C.15.3 TPDU size negotiation

| Index | | References | Status | Support |
|---|---|---|---|---|
| TS1 | If maximum TPDU size is proposed in a CR TPDU then the initiator shall support all TPDU sizes from 128 octets to the maximum proposed. | 14.6 | M | Yes |
| TS2 | If the preferred maximum TPDU size parameter is used in a CR TPDU then the initiator shall support all TPDU sizes, except 0, that are multiplies of 128 octets up to the preferred maximum proposed. | 14.6 e) | I4CR18:M | Yes No |

| Index | | References | Allowed values | Supported values |
|---|---|---|---|---|
| TS3 | What is the largest value of the preferred maximum TPDU size parameter in a CR TPDU | 14.6 e) | any multiple of 128 octets | |
| TS4 | What is the largest value of the preferred maximum TPDU size parameter in a CC TPDU | 14.6 e) | any multiple of 128 octets | |

| Index | TPDU size | References | Allowed values | Supported values |
|---|---|---|---|---|
| T0S1 | What is the largest value of the maximum TPDU size parameter in a CR TPDU with preferred class 0? | 14.6 e) | NOT I0CR9: One of 128, 256, 512, 1024, 2048<br>I0CR9: One of nx128 with n = 1, 2, 3, ... | |
| T0S2 | What is the largest value of the maximum TPDU size parameter which may be sent in a CC TPDU when class 0 is selected? | 14.6 e) | NOT I0CC9: One of 128, 256, 512, 1024, 2048<br>I0CC9: One of nx128 with n = 1, 2, 3, ... | |
| T1S1 | What is the largest value of the maximum TPDU size parameter in a CR TPDU with preferred class 1? | 14.6 e) | NOT I1CR18: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I1CR18: One of nx128 with n = 1, 2, 3, ... | |
| T1S2 | What is the largest value of the maximum TPDU size parameter which may be sent in a CC TPDU when class 1 is selected? | 14.6 e) | NOT I1CC18: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I1CC18: One of nx128 with n = 1, 2, 3, ... | |
| T2S1 | What is the largest value of the maximum TPDU size parameter in a CR TPDU with preferred class 2? | 14.6 e) | NOT I2CR17: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I2CR17: One of nx128 with n = 1, 2, 3, ... | |
| T2S2 | What is the largest value of the maximum TPDU size parameter which may be sent in a CC TPDU when class 2 is selected? | 14.6 e) | NOT I2CC16: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I2CC16: One of nx128 with n = 1, 2, 3, ... | |
| T3S1 | What is the largest value of the maximum TPDU size parameter in a CR TPDU with preferred class 3? | 14.6 e) | NOT I3CR18: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I3CR18: One of nx128 with n = 1, 2, 3, ... | |
| T3S2 | What is the largest value of the maximum TPDU size parameter which may be sent in a CC TPDU when class 3 is selected? | 14.6 e) | NOT I3CC18: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I3CC18: One of nx128 with n = 1, 2, 3, ... | |
| T4S1 | What is the largest value of the maximum TPDU size parameter in a CR TPDU with preferred class 4? | 14.6 e) | NOT I4CR18: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I4CR18: One of nx128 with n = 1, 2, 3, ... | |
| T4S2 | What is the largest value of the maximum TPDU size parameter which may be sent in a CC TPDU when class 4 is selected? | 14.6 e) | NOT I4CC16: One of 128, 256, 512, 1024, 2048, 4096, 8192<br>I4CC16: One of nx128 with n = 1, 2, 3, ... | |

### C.15.4 Use of extended format

| Index | Extended format | References | Allowed values | Supported values |
|---|---|---|---|---|
| NEF1 | What formats can you propose in the CR TPDU in class 2? | 6.5.4 k) | normal, extended | |
| NEF2 | What formats can you propose in the CR TPDU in class 3? | 6.5.4 k) | normal, extended | |
| NEF3 | What formats can you propose in the CR TPDU in class 4? | 6.5.4 k) | normal, extended | |
| NEF4 | What formats can you select in CC when extended has been proposed in CR in class 2? | 6.5.4 k) | normal, extended | |
| NEF5 | What formats can you select in CC when extended has been proposed in CR in class 3? | 6.5.4 k) | normal, extended | |
| NEF6 | What formats can you select in CC when extended has been proposed in CR in class 4? | 6.5.4 k)<br>6.5.4 j) | normal, extended | |

### C.15.5 Expedited data transport service

| Index | References | Status | Support |
|---|---|---|---|
| TED1 | 6.5.4 r) | M | Yes |

### C.15.6 Non-use of checksum ((C4 OR C4L) AND T4F29::)

| Index | Non-use of checksum | References | Allowed values | Supported values |
|---|---|---|---|---|
| NUC1 | What proposals can you make in the CR? | 6.5.4 m)<br>6.5.5 k) | non-use, use | |
| NUC2 | What proposals can you make in CC when non-use of checksum has been proposed in CR? | 6.5.4 m)<br>6.5.5 k) | non-use, use | |

### C.15.7 Non-use of explicit flow control (C2 and T2F20::)

| Index | Non-use of explicit flow control | References | Allowed values | Supported values |
|---|---|---|---|---|
| NUF1 | What proposals can you make in the CR? | 6.5.4 p) | non-use, use | |
| NUF2 | What proposals can you make in CC when non-use of explicit flow control has been proposed in CR? | 6.5.4 p) | non-use, use | |

### C.15.8 Use of network receipt conformation (C1 and T1F21::)

| Index | Network receipt confirmation | References | Allowed values | Supported values |
|---|---|---|---|---|
| UNRC1 | What proposals can you make in the CR? | 6.5.4 q) | non-use, use | |
| UNRC2 | What proposals can you make in CC when use of network receipt confirmation has been proposed in CR? | 6.5.4 q) | non-use, use | |

### C.15.9 Use of network expedited data (C1 and T1F20::)

| Index | Network expedited data | References | Allowed values | Supported values |
|---|---|---|---|---|
| UNED1 | What proposals can you make in the CR? | 6.5.4 q) | non-use, use | |
| UNED2 | What proposals can you make in CC when use of network expedited data has been proposed in CR? | 6.5.4 q) | non-use, use | |

### C.15.10 Use of selective acknowledgement

| Index | selective acknowledgement | References | Allowed values | Supported values |
|---|---|---|---|---|
| USA1 | Is use of selective acknowledgement proposed in CR TPDUs? | 6.5.4 u) | Yes, No | |
| USA2 | Is use of selective acknowledgement selected in a CC when it has been proposed in a CR? | 6.5.4 u) | Yes, No | |

### C.15.11 Use of request acknowledgement

| Index | Request of acknowledgement | References | Allowed values | Supported values |
|---|---|---|---|---|
| ROA1 | Is use of request of acknowledgement proposed in CR TPDUs? | 6.5.4 v) | Yes, No | |
| ROA2 | Is use of request of acknowledgement selected in a CC when it has been proposed in a CR? | 6.5.4 v) | Yes, No | |

## C.16 Error handling

### C.16.1 Action on receipt of a protocol error

| Index | Item | References | Allowed values | Supported values |
|---|---|---|---|---|
| PE0 | Class 0 | 6.22.3 | C0: ER, NDISreq, NRSTreq, Discard | |
| PE1 | Class 1 | 6.2.3 | C1: ER, DR, NDISreq, NRSTreq, Discard | |
| PE2 | Class 2 | 6.22.3 | C2: ER, DR, NDISreq, NRSTreq, Discard | |
| PE3 | Class 3 | 6.22.3 | C3: ER, DR, NDISreq, NRSTreq, Discard | |
| PE4 | Class 4 over CONS | 6.22.3 | C4: ER, DR, NDISreq, NRSTreq, Discard | |
| PE4L | Class 4 over CLNS | 6.22.3 | C4L: ER, DR, Discard | |

### C.16.2 Actions on receipt of an invalid or undefined parameter in a CR TPDU

| Index | Event | References | Status | Support |
|---|---|---|---|---|
| RR1 | A parameter not defined in ISO 8073 shall be ignored | 13.2.3 | M | Yes |
| RR2 | An invalid value in the alternative protocol class parameter shall be treated as a protocol error | 13.2.3 | M | Yes |
| RR3 | An invalid value in the class and option parameter shall be treated as a protocol error | 13.2.3 | M | Yes |
| RR4 | On receipt of the additional option selection parameter bits 8 to 5, and bits 4 to 1 if not meaningful for the proposed class shall be ignored. | 13.3.4 | M | Yes |
| RR5 | If non-use of explicit flow control is proposed and bit 1 of the additional option selection parameter equals 1, it shall be treated as an protocol error. | 13.2.3 | M | Yes |
| RR6 | On receipt of the class option paramter bits 4 to 1 if not meaningful for the proposed class chall be ignored | 13.3.3 | M | Yes |

What action is supported on receipt of the following?

| Index | Event | References | Allowed actions | Supported actions |
|---|---|---|---|---|
| RR7 | A paramter defined in ISO/IEC 8073 (other than those covered above) and have an invalid value | 13.2.3 | Ignore, protocol error | |

### C.16.3 Actions on receipt of an invalid or undefined parameter in a TPDU other than a CR TPDU

The following actions are mandatory

| Index | Event | References | Status | Support |
|---|---|---|---|---|
| UI1 | A paramter not defined in ISO/IEC 8073 shall be treated as a protocol error | 13.2.3 | M | Yes |
| UI2 | A parameter which has an invalid value as defined in ISO/IEC 8073 shall be treated as a protocol error | 13.2.3 | M | Yes |
| UI3 (class 4 only) | A TPDU received with a checksum which does not satisfy the defined formula shall be discarded. | 6.17.3 | M | Yes |

## C.17 Timers and protocol parameters

The following are mandatory if class 4 is supported.

| Index | | References | Status | Support |
|---|---|---|---|---|
| TA1 | T1 | 12.2.1 | M | Yes |
| TA2 | N | 12.2.1 | M | Yes |
| TA3 | $I_L$ | 12.2.1 | M | Yes |
| TA4 | W | 12.2.1 | M | Yes |
| TA5 | L | 12.2.1 | M | Yes |

| Index | | References | Status | Support |
|---|---|---|---|---|
| OT1 | Does IUT support optional timer TS1 when operating in class 0? | 6.5.4 | O | Yes No |
| OT2 | Does IUT support optional timer TS1 when operating in class 1? | 6.5.4 | O | Yes No |
| OT3 | Does IUT support optional timer TS1 when operating in class 2? | 6.5.4 | O | Yes No |
| OT4 | Does IUT support optional timer TS1 when operating in class 3? | 6.5.4 | O | Yes No |
| OT5 | Does IUT support optional timer TS2 when operating in class 0? | 6.7.5 | O | Yes No |
| OT6 | Does IUT support optional timer TS2 when operating in class 1? | 6.7.5 | O | Yes No |
| OT7 | Does IUT support optional timer TS2 when operating in class 2? | 6.7.5 | O | Yes No |
| OT8 | Does IUT support optional timer TS2 when operating in class 3? | 6.7.5 | O | Yes No |
| OT9 | Does IUT support optional timer TS2 when operating in class 4? | 6.22 | O | Yes No |

The following are mandatory if class 1 or 3 is supported.

| Index | | References | Status | Support |
|---|---|---|---|---|
| TA6 | TTR | 6.12.3<br>6.12.4 | M | Yes |
| TA7 | TWR | 6.12.3<br>6.12.4 | M | Yes |