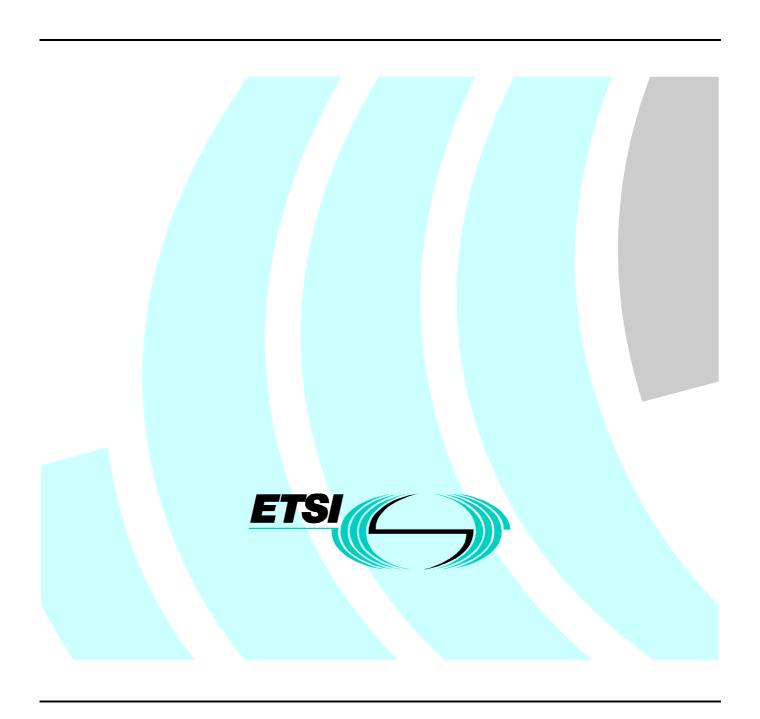
## ETSI EN 300 182-2 V1.3.4 (1999-09)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Advice of Charge (AOC) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification



#### Reference

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#### **Foreword**

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Advice of Charge (AOC) supplementary service, as described below:

- Part 1: "Protocol specification";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

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 Open Systems Interconnection (OSI) protocol. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

The present version updates the references to the basic call specifications.

| National transposition dates                                                           |                  |  |  |  |  |  |
|----------------------------------------------------------------------------------------|------------------|--|--|--|--|--|
| Date of adoption of this EN: 10 September 1999                                         |                  |  |  |  |  |  |
| Date of latest announcement of this EN (doa):                                          | 31 December 1999 |  |  |  |  |  |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 30 June 2000     |  |  |  |  |  |
| Date of withdrawal of any conflicting National Standard (dow):                         | 30 June 2000     |  |  |  |  |  |

## 1 Scope

This second part of EN 300 182 is applicable to the stage three of the Advice of Charge (AOC) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in

ITU-T Recommendation I.411 [9]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [8]).

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 AOC supplementary service protocol as specified in EN 300 182-1 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [7].

The supplier of a protocol implementation which is claimed to conform to EN 300 182-1 [2] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

#### 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.
- Void. [1] [2] EN 300 182-1 (V1.3): "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification". EN 300 195-2: "Integrated Services Digital Network (ISDN); Supplementary service interactions; [3] Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification". [4] ETS 300 196-2: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification". [5] EN 300 403-3: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System
- Protocol Implementation Conformance Statement (PICS) proforma specification".

  [6] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing

No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3:

[7] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

methodology and framework - Part 1: General concepts".

- [8] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [9] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces Reference configurations".

## 3 Definitions and Abbreviations

#### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 182-1 [2] and the following apply:

**Protocol Implementation Conformance Statement (PICS):** statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol (see ISO/IEC 9646-1 [6]).

**PICS proforma:** document, in the form of a questionnaire, designed by the protocol specifier or conformance test suite specifier, which, when completed for an OSI implementation or system, becomes the PICS (see ISO/IEC 9646-1 [6]).

**static conformance review:** review of the extent to which the static conformance requirements are met by the IUT, accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s) (see ISO/IEC 9646-1 [6]).

#### 3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AOC Advice of Charge
AOC-D AOC During the call
AOC-E AOC at the End of the call
AOC-S AOC at call Set-up time

C Conditional requirement (to be observed if the relevant conditions apply)

DSS1 Digital Subscriber Signalling System No. one

IET Information Elements Transmitted
ISDN Integrated Services Digital Network

IUT Implementation Under Test

M Mandatory requirement (to be observed in all cases)

MC Major Capabilities
MT Messages Transmitted

N/A Not applicable, not supported or the conditions for status are not met

No not supported NOT Boolean "not"

Option (may be selected to suit the implementation, provided that any requirements applicable to

the option are observed)

O.n Options, but support required for either at least one or only one of the options in the group labelled

with the same numeral "n"

OR Boolean "or"

OSI Open Systems Interconnection

P Parameters

PICS Protocol Implementation Conformance Statement

R Roles

RL Requirements List SC Subsidiary Capabilities

SCS System Conformance Statement

SS Supplementary Service SUT System Under Test

Yes supported

## 4 Conformance

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

A PICS which conforms to this PICS proforma specification shall:

- 1) describe an implementation which claims to conform to EN 300 182-1 [2];
- 2) be a conforming ICS proforma which has been completed in accordance with the instructions for completion given in clause A.1;
- 3) include the information necessary to uniquely identify both the supplier and the implementation.

## Annex A (normative): PICS proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

## A.1 Instructions for completing the PICS proforma

### A.1.1 Identification of the implementation

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

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

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

The SCS as defined in ISO/IEC 9646-1 [6] is a document supplied by the client or product supplier that summarizes which OSI International Standards, ITU-T (CCITT) Recommendations, ETSs/ENs or other standards are implemented and to which conformance is claimed. The PICS/SCS subclause should describe the relationship of the PICS to the SCS.

#### A.1.2 Global statement of conformance

If the answer to the statement in this subclause is "Yes", all subsequent subclauses should be completed to facilitate selection of test cases for optional functions.

If the answer to the statement in this subclause is "No", all subsequent subclauses should be completed, and all non-supported mandatory capabilities should be identified and explained. Explanations may be entered in the comments field at the bottom of each table or on attached sheets of paper.

### A.1.3 Explanation of PICS proforma subclauses

The PICS proforma contains a Roles clause and thereafter is presented in two parts (for user and network) with the following subclauses, as required:

- major capabilities;
- subsidiary capabilities;
- protocol data unit support;
- protocol data unit parameters;
- timers;
- call states

The User clause shall only be completed for user implementations (including private network implementations) while the Network clause shall only be completed for network implementations. The Roles subclause shall be completed for all implementations.

The relationship between this PICS proforma and other related PICS proforma (e.g. the basic call PICS proforma) is expressed in the Requirements List (RL) contained in annex B. This provides the additional restrictions placed on the related proforma (different conditions, different status, etc.).

### A.1.4 Symbols, abbreviations and terms

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [7].

The reference column contained in the tables gives reference to the appropriate part(s) of EN 300 182-1 [2] describing the particular item. Note, however, that a reference merely indicates the place where the core of a description of an item can be found. Any additional information contained in EN 300 182-1 [2] has to be taken into account when making a statement about the conformance of that particular item.

The following common notations, defined in ISO/IEC 9646-7 [7], are used for the status column:

M mandatory; O optional; N/A not applicable;

O.<integer> for mutually exclusive or selectable options from a set.

The following common notations, defined in ISO/IEC 9646-7 [7], are used for the support column:

- Y for supported/implemented;
- N for not supported/not implemented.

| A.2.1 IUT name: | Implementation Under Test (IUT) identification |
|-----------------|------------------------------------------------|
| IUT version:    |                                                |
| A.2.2 SUT name: | System Under Test (SUT) identification         |
| Hardware co     | nfiguration:                                   |
| Operating sys   | stem:                                          |
|                 |                                                |

# Product supplier A.2.3 Name: Address: Telephone number: Facsimile number: Additional information: A.2.4 Client Name: Address: Telephone number: Facsimile number: ..... Additional information: A.2.5

## A.2.5 PICS contact person

| Address:                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                        |
| Telephone number:                                                                                                                                                                                                      |
| Facsimile number:                                                                                                                                                                                                      |
| Additional information:                                                                                                                                                                                                |
|                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                        |
| A.3 PICS/System Conformance Statement (SCS)  Provide the relationship of the PICS with the SCS for the system:                                                                                                         |
|                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                        |
| A.4 Identification of the protocol                                                                                                                                                                                     |
| This PICS proforma applies to the following standard:                                                                                                                                                                  |
| <b>EN 300 182-1 (V1.3)</b> : "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification". |
| A.5 Global statement of conformance                                                                                                                                                                                    |
| The implementation described in this PICS meets all the mandatory requirements of the referenced standard?                                                                                                             |
| [ ] Yes                                                                                                                                                                                                                |
| [ ] <b>No</b>                                                                                                                                                                                                          |

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

#### A.6 Roles

Table A.1: Roles

| Item   | Major role:                                                                                                                                                                                                       | Conditions for     | Status   | Reference | Support                |  |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------|------------------------|--|
|        | Does the implementation                                                                                                                                                                                           | status             |          |           |                        |  |
|        | Type of implementation                                                                                                                                                                                            |                    |          |           |                        |  |
| R 1    | not used                                                                                                                                                                                                          |                    |          |           |                        |  |
| R 2.1  | support user requirements?                                                                                                                                                                                        |                    | 0.1      | 9         | [ ]Yes [ ]No           |  |
| R 2.2  | support network requirements?                                                                                                                                                                                     |                    | 0.1      | 9         | [ ]Yes [ ]No           |  |
| R 3    | not used (note)                                                                                                                                                                                                   |                    | N/A      |           | N/A                    |  |
| R 4.1  | support user requirements at the interface of the served user?                                                                                                                                                    | R 2.1<br>NOT R 2.1 | M<br>N/A | 9         | [ ]Yes<br>[ ]No [ ]N/A |  |
| R 4.2  | support user requirements at the interface of the remote user?                                                                                                                                                    |                    | N/A      |           | N/A                    |  |
| R 4.3  | support network requirements at the interface of the served user?                                                                                                                                                 | R 2.2<br>NOT R 2.2 | M<br>N/A | 9         | [ ]Yes<br>[ ]No [ ]N/A |  |
| R 4.4  | support network requirements at the interface of the remote user?                                                                                                                                                 |                    | N/A      |           | N/A                    |  |
| 0.1    | Support of one and only one of these options                                                                                                                                                                      | is required.       |          |           | •                      |  |
| NOTE:  | EN 300 182-1 provides identical requirements for the T reference point and for the coincident S and T reference point. Therefore, this PICS proforma makes no distinction between the different reference points. |                    |          |           |                        |  |
| Commen |                                                                                                                                                                                                                   |                    |          |           | •                      |  |

#### A.7 User

The tables provided in this clause need only to be completed for user implementation where item R 2.1 in table A.1 is

#### Major capabilities A.7.1

Table A.2: Major capabilities - user

| Item     | Major capability:                                                                                         | Conditions for                                           | Status   | Reference | Support                |
|----------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|-----------|------------------------|
|          | Does the implementation support                                                                           | status                                                   |          |           |                        |
| MC 1     | AOC-S?                                                                                                    |                                                          | 0.2      | 1         | [ ]Yes [ ]No           |
| MC 2     | AOC-D?                                                                                                    |                                                          | 0.2      | 1         | []Yes[]No              |
| MC 3     | AOC-E?                                                                                                    |                                                          | 0.2      | 1         | [ ]Yes [ ]No           |
| MC 4     | the receipt of charging information in the call establishment phase (AOC-S)?                              | MC 1<br>NOT MC 1                                         | M<br>N/A | 9.2.1     | [ ]Yes<br>[ ]No [ ]N/A |
| MC 5     | the receipt of charging information in the Active state of a call (AOC-S and AOC-D)?                      | MC 1 OR MC 2<br>NOT (MC 1 OR<br>MC 2)                    | M<br>N/A | 9.2.2     | [ ]Yes<br>[ ]No [ ]N/A |
| MC 6     | the receipt of charging information in the call clearing phase (AOC-S, AOC-E and AOC-D)?                  | MC 1 OR MC 2<br>OR MC 3<br>NOT (MC 1 OR<br>MC 2 OR MC 3) | M<br>N/A | 9.2.3     | [ ]Yes<br>[ ]No [ ]N/A |
| MC 7     | the receipt of charging information without a bearer establishment at the user-network interface (AOC-E)? | MC 3<br>NOT MC 3                                         | O<br>N/A | 9.2.4     | [ ]Yes<br>[ ]No [ ]N/A |
| MC 8     | the receipt of charging information as currency and charging units?                                       | MC 2 OR MC 3<br>NOT (MC 2 OR<br>MC 3)                    | O<br>N/A | 9.2       | [ ]Yes<br>[ ]No [ ]N/A |
| MC 9     | the receipt of charging information as currency and as special charging arrangement?                      | MC 1<br>NOT MC 1                                         | O<br>N/A | 9.2       | [ ]Yes<br>[ ]No [ ]N/A |
| NOTE:    | O.2: Support of at least of one of these options is                                                       | required.                                                |          |           |                        |
| Comments | :                                                                                                         | ·                                                        |          |           |                        |

#### Subsidiary capabilities A.7.2

Table A.3: Subsidiary capabilities - user

| Item | Subsidiary capability:  Does the implementation support | Conditions for status | Status   | Reference | Support                |
|------|---------------------------------------------------------|-----------------------|----------|-----------|------------------------|
| SC 1 | the AOC-S service on a per call basis?                  | MC 1<br>NOT MC 1      | O<br>N/A | 9.1.1     | [ ]Yes<br>[ ]No [ ]N/A |
| SC 2 | the AOC-D service on a per call basis?                  | MC 2<br>NOT MC 2      | O<br>N/A | 9.1.1     | [ ]Yes<br>[ ]No [ ]N/A |
| SC 3 | the AOC-E service on a per call basis?                  | MC 3<br>NOT MC 3      | O<br>N/A | 9.1.1     | [ ]Yes<br>[ ]No [ ]N/A |

Comments:

#### A.7.3 Protocol data units

No items requiring response.

## A.7.4 Protocol data unit parameters

Table A.4: Facility information element components received - user

| Item      | Facility information element components:              | Conditions for                                           | Status   | Reference              | Support                |
|-----------|-------------------------------------------------------|----------------------------------------------------------|----------|------------------------|------------------------|
|           | Does the implementation support the interpretation of | status                                                   |          |                        |                        |
| P 1       | ChargingRequest?                                      |                                                          | •        | •                      | •                      |
| P 1.1     | ChargingRequest return result component?              | SC 1 OR SC 2 OR<br>SC 3<br>NOT (SC 1 OR<br>SC 2 OR SC 3) | M<br>N/A | 9.1, 9.2.1,<br>9.2.3.1 | [ ]Yes<br>[ ]No [ ]N/A |
| P 1.2     | ChargingRequest return error component?               | SC 1 or SC 2 or                                          | M<br>N/A | 9.2.1, 9.2.3.2         | [ ]Yes<br>[ ]No [ ]N/A |
| P 2       | AOCSCurrency invoke component?                        |                                                          | M<br>N/A | 9.2.1, 9.2.2,<br>9.2.3 | [ ]Yes<br>[ ]No [ ]N/A |
| P 3       | AOCSSpecialArr invoke component?                      | MC 1<br>NOT MC 1                                         | M<br>N/A | 9.2.1, 9.2.2,<br>9.2.3 | [ ]Yes<br>[ ]No [ ]N/A |
| P 4       | AOCDCurrency invoke component?                        | MC 2<br>NOT MC 2                                         | M<br>N/A | 9.2.2, 9.2.3           | [ ]Yes<br>[ ]No [ ]N/A |
| P 5       | AOCDChargingUnit invoke component?                    | MC 2<br>NOT MC 2                                         | M<br>N/A | 9.22, 9.2.3            | [ ]Yes<br>[ ]No [ ]N/A |
| P 6       | AOCECurrency invoke component?                        | MC 3<br>NOT MC 3                                         | M<br>N/A | 9.2.3, 9.2.4           | [ ]Yes<br>[ ]No [ ]N/A |
| P 7       | AOCEChargingUnit invoke component?                    |                                                          | M<br>N/A | 9.2.3, 9.2.4           | [ ]Yes<br>[ ]No [ ]N/A |
| Comments: |                                                       |                                                          |          |                        |                        |

Table A.5: Facility information element components transmitted - user

| Item      | Facility information element components:               | Conditions for | Status   | Reference    | Support                |
|-----------|--------------------------------------------------------|----------------|----------|--------------|------------------------|
|           | Does the implementation support                        | status         |          |              |                        |
| P 8       | the inclusion of the ChargingRequest invoke component? |                | M<br>N/A | 9.2.1, 9.2.2 | [ ]Yes<br>[ ]No [ ]N/A |
| Comments: |                                                        |                |          |              |                        |

#### A.7.5 Timers

No items requiring response.

#### A.7.6 Call states

No items requiring response.

## A.8 Network

The tables provided in this clause need only to be completed for network implementation where item  $R\ 2.2$  in table A.1 is supported.

## A.8.1 Major capabilities

Table A.6: Major capabilities - network

| Item      | Major capability:                                                         | Conditions for          | Status | Reference | Support      |
|-----------|---------------------------------------------------------------------------|-------------------------|--------|-----------|--------------|
|           | Does the implementation                                                   | status                  |        |           |              |
| MC 10     | support AOC-S?                                                            |                         | 0.3    | 1         | [ ]Yes [ ]No |
| MC 11     | support AOC-D?                                                            |                         | O.3    | 1         | [ ]Yes [ ]No |
| MC 12     | support AOC-E?                                                            |                         | 0.3    | 1         | [ ]Yes [ ]No |
| MC 13     | support the transfer of charging information                              | MC 10                   | М      | 9.2       | []Yes        |
|           | in support the call establishment phase (AOC-S)?                          | NOT MC 10               | N/A    |           | [ ]No [ ]N/A |
| MC 14     | support the transfer of charging information                              | MC 10 or                | M      | 9.2       | []Yes        |
|           | in the Active state of a call (AOC-S and                                  | MC 11                   |        |           | [ ]No [ ]N/A |
|           | AOC-D)?                                                                   | NOT (MC 10 OR<br>MC 11) | N/A    |           |              |
| MC 15     | support the transfer of charging information                              | MC 11 OR                | М      | 9.2       | []Yes        |
|           | in the call clearing phase (AOC-E and                                     | MC 12                   |        |           | [ ]No [ ]N/A |
|           | AOC-D)?                                                                   | NOT (MC 11 OR<br>MC 12) | N/A    |           |              |
| MC 16     | support the transfer of charging information                              | MC 10                   | 0      | 9.2       | []Yes        |
|           | in the call clearing phase (AOC-S)?                                       | NOT MC 10               | N/A    |           | [ ]No [ ]N/A |
| MC 17     | support the transfer of charging information                              | MC 12                   | 0      | 9.2.4     | []Yes        |
|           | without a bearer establishment at the user-<br>network interface (AOC-E)? | NOT MC 12               | N/A    |           | [ ]No [ ]N/A |
| MC 18     | provide charging information based on ch                                  | arging units            |        |           |              |
| MC 18.1   | AOC-S?                                                                    | MC 10                   | 0      | 9.2       | []Yes        |
|           |                                                                           | NOT MC 10               | N/A    |           | [ ]No [ ]N/A |
| MC 18.1   | AOC-D?                                                                    | MC 11                   | 0.4    | 9.2       | []Yes        |
|           |                                                                           | NOT MC 11               | N/A    |           | [ ]No [ ]N/A |
| MC 18.1   | AOC-E?                                                                    | MC 12                   | O.5    | 9.2       | []Yes        |
|           |                                                                           | NOT MC 12               | N/A    |           | [ ]No [ ]N/A |
| MC 19     | provide charging information based on cu                                  |                         |        |           |              |
| MC 19.1   | AOC-D?                                                                    | MC 11                   | 0.4    | 9.2       | []Yes        |
|           |                                                                           | NOT MC 11               | N/A    |           | [ ]No [ ]N/A |
| MC 19.1   | AOC-E?                                                                    | MC 12                   | O.5    | 9.2       | []Yes        |
|           |                                                                           | NOT MC 12               | N/A    |           | [ ]No [ ]N/A |
|           | D.3: Support of at least one of these options is re                       |                         |        |           |              |
|           | D.4: Support of at least one of these options is re                       |                         |        |           |              |
|           | D.5: Support of at least one of these options is re                       | equirea.                |        |           |              |
| Comments: |                                                                           |                         |        |           |              |
| 1         |                                                                           |                         |        |           |              |
|           |                                                                           |                         |        |           |              |
|           |                                                                           |                         |        |           |              |

## A.8.2 Subsidiary capabilities

Table A.7: Subsidiary capabilities - network

| Item      | Subsidiary capability:                                                                        | Conditions for | Status | Reference | Support                |
|-----------|-----------------------------------------------------------------------------------------------|----------------|--------|-----------|------------------------|
|           | Does the implementation                                                                       | status         |        |           |                        |
| SC 4      | retain the charging information for a suspended call as long as it retains the call identity? |                | 0      | 6.2       | [ ]Yes<br>[ ]No [ ]N/A |
| Comments: |                                                                                               |                |        |           |                        |

## A.8.3 Protocol data units

No items requiring response.

## A.8.4 Protocol data unit parameters

Table A.8: Facility information element components received - network

| [ ]Yes [ ]No |
|--------------|
| []100[]10    |
|              |
|              |
|              |

Table A.9: Facility information element components transmitted - network

| Item      | Facility information element components:  Does the implementation support the interpretation of            | Conditions for status | Status     | Reference              | Support                |
|-----------|------------------------------------------------------------------------------------------------------------|-----------------------|------------|------------------------|------------------------|
| P 10      | ChargingRequest                                                                                            |                       |            |                        |                        |
| P 10.1    | ChargingRequest return result component?                                                                   |                       | M          | 9.1, 9.2.1,<br>9.2.3.1 | [ ]Yes [ ]No           |
| P 10.2    | ChargingRequest return error component?                                                                    |                       | М          | 9.2.1, 9.2.3.2         | [ ]Yes [ ]No           |
| P 11      | AOCSCurrency invoke component?                                                                             | MC 10<br>NOT MC 10    | M<br>N/A   | 9.2.1, 9.2.2,<br>9.2.3 | [ ]Yes<br>[ ]No [ ]N/A |
| P 12      | AOCSSpecialArr invoke component?                                                                           | MC 10<br>NOT MC 10    | O<br>N/A   | 9.2.1, 9.2.2,<br>9.2.3 | [ ]Yes<br>[ ]No [ ]N/A |
| P 13      | AOCDCurrency invoke component?                                                                             | MC 11<br>NOT MC 11    | O.6<br>N/A | 9.2.2, 9.2.3           | [ ]Yes<br>[ ]No [ ]N/A |
| P 14      | AOCDChargingUnit invoke component?                                                                         | MC 11<br>NOT MC 11    | O.6<br>N/A | 9.22, 9.2.3            | [ ]Yes<br>[ ]No [ ]N/A |
| P 15      | AOCECurrency invoke component?                                                                             | MC 12<br>NOT MC 12    | O.7<br>N/A | 9.2.3, 9.2.4           | [ ]Yes<br>[ ]No [ ]N/A |
| P 16      | AOCEChargingUnit invoke component?                                                                         | MC 12<br>NOT MC 12    | O.7<br>N/A | 9.2.3, 9.2.4           | [ ]Yes<br>[ ]No [ ]N/A |
|           | 0.6: Support of at least one of these options is re<br>0.7: Support of at least one of these options is re |                       |            |                        |                        |
| Comments: |                                                                                                            |                       |            |                        |                        |

## A.8.5 Timers

No items requiring response.

#### A.8.6 Call states

No items requiring response.

## Annex B (normative): Requirements list

Annex B repeats in the form of a requirements list some items of the basic call, generic functional protocol and supplementary service interactions PICS proforma required for support of EN 300 182-1 [2]. No support column is provided as the answers are to be entered in the relevant base PICS proforma.

In the tables which follow in annex B, the status of the base PICS proforma is indicated as "C" (conditional) or "O" (optional). The "C" status is used where the base PICS proforma contains a number of interdependent items which need not be repeated in the present document. "O" indicates that the item in the base PICS proforma is dependent on one or more other items, at least one of which has an optional status. The exact interdependency is fully specified in the base PICS proforma specification.

### B.1 User

### B.1.1 Requirements on items used in the basic call PICS

In the tabulations which follow all item numbers are as contained in EN 300 403-3 [5]. All references are to EN 300 182-1 [2] unless otherwise stated.

Table B.1: Major capabilities - user

| Item  | Major capability: Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference |
|-------|---------------------------------------------------|----------------|--------------------------|-----------|-----------|
| MCu 1 | outgoing calls?                                   | 0              |                          | M<br>N/A  | 9.2       |

## B.1.2 Requirements on items used in the generic functional protocol PICS

In the tabulations which follow all item numbers are as contained in EN 300 196-2 [4], all references are to EN 300 182-1 [2] unless otherwise stated.

Table B.2: Major capabilities - user

| Major capability: Does the implementation support                                                        | Status base                                                                                                                                                                                                                                                                                                                                                                                                    | SS conditions for status                                                                                                                                                                                                                                                                                                                                                            | SS status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| the functional protocol (common information element category) for the control of supplementary services? | С                                                                                                                                                                                                                                                                                                                                                                                                              | R 4.1<br>NOT R 4.1                                                                                                                                                                                                                                                                                                                                                                  | M<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| bearer related supplementary services procedure?                                                         | С                                                                                                                                                                                                                                                                                                                                                                                                              | R 4.1<br>NOT R 4.1                                                                                                                                                                                                                                                                                                                                                                  | M<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| bearer independent supplementary services procedure?                                                     | С                                                                                                                                                                                                                                                                                                                                                                                                              | MC 7<br>NOT MC 7                                                                                                                                                                                                                                                                                                                                                                    | M<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| point-to-point (bearer related) transport mechanism?                                                     | С                                                                                                                                                                                                                                                                                                                                                                                                              | R 4.1<br>NOT R 4.1                                                                                                                                                                                                                                                                                                                                                                  | M<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| point-to-point (bearer independent) connectionless transport mechanism?                                  | С                                                                                                                                                                                                                                                                                                                                                                                                              | MC 7<br>NOT MC 7                                                                                                                                                                                                                                                                                                                                                                    | O.1<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9.2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| broadcast (bearer independent) connectionless transport mechanism?                                       | С                                                                                                                                                                                                                                                                                                                                                                                                              | MC 7<br>NOT MC 7                                                                                                                                                                                                                                                                                                                                                                    | O.1<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9.2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                          | the functional protocol (common information element category) for the control of supplementary services? bearer related supplementary services procedure? bearer independent supplementary services procedure? point-to-point (bearer related) transport mechanism? point-to-point (bearer independent) connectionless transport mechanism? broadcast (bearer independent) connectionless transport mechanism? | the functional protocol (common information element category) for the control of supplementary services?  bearer related supplementary services procedure?  bearer independent supplementary services procedure?  point-to-point (bearer related) transport mechanism?  point-to-point (bearer independent) C connectionless transport mechanism?  broadcast (bearer independent) C | the functional protocol (common information element category) for the control of supplementary services?  bearer related supplementary services procedure?  bearer independent supplementary services procedure?  bearer independent supplementary services procedure?  connectionless transport mechanism?  connectionless transport mechanism? | the functional protocol (common information element category) for the control of supplementary services?  bearer related supplementary services procedure?  bearer independent supplementary services C MC 7 M/A  point-to-point (bearer related) transport C R 4.1 M  mechanism?  broadcast (bearer independent) C MC 7 O.1  connectionless transport mechanism?  broadcast (bearer independent) C MC 7 O.1  connectionless transport mechanism?  C MC 7 O.1  NOT MC 7 N/A |

Table B.3: Subsidiary capabilities - user

| Item    | Subsidiary capability:  Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference |
|---------|---------------------------------------------------------|----------------|--------------------------|-----------|-----------|
| SCu 2.1 | the use of the invocation procedure?                    | 0              | R 4.1<br>NOT R 4.1       | M<br>N/A  | 7         |
| SCu 2.2 | the use of the return result procedure?                 | 0              | R 4.1<br>NOT R 4.1       | M<br>N/A  | 7         |
| SCu 2.3 | the use of the return-error procedure?                  | 0              | R 4.1<br>NOT R 4.1       | M<br>N/A  | 7         |
| SCu 2.4 | the use of the reject procedure?                        | 0              | R 4.1<br>NOT R 4.1       | M<br>N/A  | 7         |

Table B.4: SETUP PDU parameters transmitted - user

| Item      | Message:                        | Status | SS conditions                                            | SS status | Reference |
|-----------|---------------------------------|--------|----------------------------------------------------------|-----------|-----------|
|           | Does the implementation support | base   | for status                                               |           |           |
| IETu 21.1 | the inclusion of Facility?      |        | SC 1 OR SC 2 OR<br>SC 3<br>NOT (SC 1 OR<br>SC 2 OR SC 3) | M<br>N/A  | 9.2.1     |

## B.1.3 Requirements on items used in the supplementary service interactions PICS

In the tabulations which follow in subclause B.1.3 all item numbers are as contained in EN 300 195-2 [3]. All references are to EN 300 182-1 [2] unless otherwise stated.

Table B.5: Major capabilities - user

| Item    | Major capability:                                                                           | Status | SS conditions    | SS status | Reference |
|---------|---------------------------------------------------------------------------------------------|--------|------------------|-----------|-----------|
|         | Does the implementation support                                                             | base   | for status       |           |           |
| MC 1.12 | the AOC-S supplementary service interactions with other implemented supplementary services? | 0      | MC 1<br>NOT MC 1 | M<br>N/A  | 12        |
| MC 1.13 | the AOC-D supplementary service interactions with other implemented supplementary services? | 0      | MC 2<br>NOT MC 2 | M<br>N/A  | 12        |
| MC 1.14 | the AOC-E supplementary service interactions with other implemented supplementary services? | 0      |                  | M<br>N/A  | 12        |

### B.2 Network

### B.2.1 Requirements on items used in the basic call PICS

No requirements on items.

## B.2.2 Requirements on items used in the generic functional protocol PICS

In the tabulations which follow all item numbers are as contained in ETS 300 196-2 [4]. All references are to EN 300 182-1 [2] unless otherwise stated.

Table B.6: Major capabilities - network

| Item    | Major capability: Does the implementation support                                                        | Status<br>base | SS conditions for status | SS status  | Reference |
|---------|----------------------------------------------------------------------------------------------------------|----------------|--------------------------|------------|-----------|
| MCn 2   | the functional protocol (common information element category) for the control of supplementary services? | С              | R 4.3<br>NOT R 4.3       | M<br>N/A   | 9.2       |
| MCn 2.1 | bearer related supplementary services procedure?                                                         | С              | R 4.3<br>NOT R 4.3       | M<br>N/A   | 9.2       |
| MCn 2.2 | bearer independent supplementary services procedure?                                                     | С              | MC 17<br>NOT MC 17       | M<br>N/A   | 9.2.4     |
| MCn 2.3 | point-to-point (bearer related) transport mechanism?                                                     | С              | R 4.3<br>NOT R 4.3       | M<br>N/A   | 9.2       |
| MCn 2.6 | point-to-point (bearer independent) connectionless transport mechanism?                                  | С              | MC 17<br>NOT MC 17       | O.2<br>N/A | 9.2.4     |
| MCn 2.7 | broadcast (bearer independent) connectionless transport mechanism?                                       | С              | MC 17<br>NOT MC 17       | O.2<br>N/A | 9.2.4     |
| NOTE: C | 0.2: Support of at least one of these options is re                                                      | equired.       |                          |            |           |

Table B.7: Subsidiary capabilities - network

| Item    | Subsidiary capability:                  | Status | SS conditions | SS status | Reference |
|---------|-----------------------------------------|--------|---------------|-----------|-----------|
|         | Does the implementation support         | base   | for status    |           |           |
| SCn 2.1 | the use of the invocation procedure?    | 0      | R 4.3         | M         | 7         |
|         |                                         |        | NOT R 4.3     | N/A       |           |
| SCn 2.2 | the use of the return result procedure? | 0      | R 4.3         | M         | 7         |
|         | ·                                       |        | NOT R 4.3     | N/A       |           |
| SCn 2.3 | the use of the return-error procedure?  | 0      | R 4.3         | M         | 7         |
|         | ·                                       |        | NOT R 4.3     | N/A       |           |
| SCn 2.4 | the use of the reject procedure?        | 0      | R 4.3         | M         | 7         |
|         | • •                                     |        | NOT R 4.3     | N/A       |           |

#### Table B.8: Messages transmitted - network

| Item  | Message:                        | Status | SS conditions  | SS status | Reference    |
|-------|---------------------------------|--------|----------------|-----------|--------------|
|       | Does the implementation support | base   | for status     |           |              |
| MTn 1 | the inclusion of FACILITY?      | С      | MC 14 or MC 17 | M         | 9.2.2, 9.2.4 |
|       |                                 |        | NOT (MC 14 OR  |           |              |
|       |                                 |        | MC 17)         | N/A       |              |

#### Table B.9: ALERTING PDU parameters transmitted - network

| Item     | Message: Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference  |
|----------|------------------------------------------|----------------|--------------------------|-----------|------------|
| IETn 9.1 | the inclusion of Facility?               | 0              |                          | M<br>N/A  | 9.1, 9.2.1 |

#### Table B.10: CALL PROCEEDING PDU parameters transmitted - network

| Item      | Message: Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference  |
|-----------|------------------------------------------|----------------|--------------------------|-----------|------------|
| IETn 10.1 | the inclusion of Facility?               | _              |                          | M<br>N/A  | 9.1, 9.2.1 |

#### Table B.11: CONNECT PDU parameters transmitted - network

| Item      | Message: Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference  |
|-----------|------------------------------------------|----------------|--------------------------|-----------|------------|
| IETn 11.1 | the inclusion of Facility?               | 0              | R 2.2                    | M         | 9.1, 9.2.1 |
|           |                                          |                | NOT R 2.2                | N/A       |            |

#### Table B.12: PROGRESS PDU parameters transmitted - network

| Item      | Message:                        | Status | SS conditions | SS status | Reference  |
|-----------|---------------------------------|--------|---------------|-----------|------------|
|           | Does the implementation support | base   | for status    |           |            |
| IETn 15.1 | the inclusion of Facility?      | 0      | R 2.2         | M         | 9.1, 9.2.1 |
|           |                                 |        | NOT R 2.2     | N/A       |            |

#### Table B.13: SETUP ACKNOWLEDGE PDU parameters transmitted - network

| Item      | Message: Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference  |
|-----------|------------------------------------------|----------------|--------------------------|-----------|------------|
| IETn 22.1 | the inclusion of Facility?               | _              |                          | M<br>N/A  | 9.1, 9.2.1 |

#### Table B.14: DISCONNECT PDU parameters transmitted - network

| Item      | Message:                        | Status | SS conditions  | SS status | Reference |
|-----------|---------------------------------|--------|----------------|-----------|-----------|
|           | Does the implementation support | base   | for status     |           |           |
| IETn 13.1 | the inclusion of Facility?      | 0      | MC 15 or MC 16 | M         | 9.2.3     |
|           |                                 |        | NOT (MC 15 OR  | N/A       |           |
|           |                                 |        | MC 16)         |           |           |

#### Table B.15: RELEASE PDU parameters transmitted - network

| Item      | Message: Does the implementation support | Status<br>base | SS conditions for status | SS status | Reference |
|-----------|------------------------------------------|----------------|--------------------------|-----------|-----------|
| IETn 16.1 | the inclusion of Facility?               | 0              | MC 15 OR MC 16           |           | 9.2.3     |
|           |                                          |                | NOT (MC 15 OR<br>MC 16)  | N/A       |           |

#### Table B.16: RELEASE COMPLETE PDU parameters transmitted - network

| Item      | Message: Does the implementation support | Status base | SS conditions for status        | SS status | Reference |
|-----------|------------------------------------------|-------------|---------------------------------|-----------|-----------|
| IETn 17.1 | the inclusion of Facility?               | _           | MC 15 OR MC 16<br>NOT (MC 15 OR | M<br>N/A  | 9.2.3     |
|           |                                          |             | MC 16)                          | 1         |           |

## B.2.3 Requirements on items used in the supplementary service interactions PICS

In the tabulations which follow in subclause B.2.3 all item numbers are as contained in EN 300 195-2 [3]. All references are to EN 300 182-1 [2] unless otherwise stated.

Table B.17: Major capabilities - network

| Item    | Major capability:                                                                           | Status | SS conditions      | SS status | Reference |
|---------|---------------------------------------------------------------------------------------------|--------|--------------------|-----------|-----------|
|         | Does the implementation support                                                             | base   | for status         |           |           |
| MC 2.12 | the AOC-S supplementary service interactions with other implemented supplementary services? | 0      | MC 10<br>NOT MC 10 | M<br>N/A  | 12        |
| MC 2.13 | the AOC-D supplementary service interactions with other implemented supplementary services? | 0      | MC 11<br>NOT MC 11 | M<br>N/A  | 12        |
| MC 2.14 | the AOC-E supplementary service interactions with other implemented supplementary services? | 0      | MC 12<br>NOT MC 12 | M<br>N/A  | 12        |

# Annex C (informative): Changes with respect to the previous EN 300 182-2 (V1.2.4)

The following changes have been done:

- adding of references in tables A.4 and A.9.

## History

| Document history |                |                              |          |                          |  |
|------------------|----------------|------------------------------|----------|--------------------------|--|
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