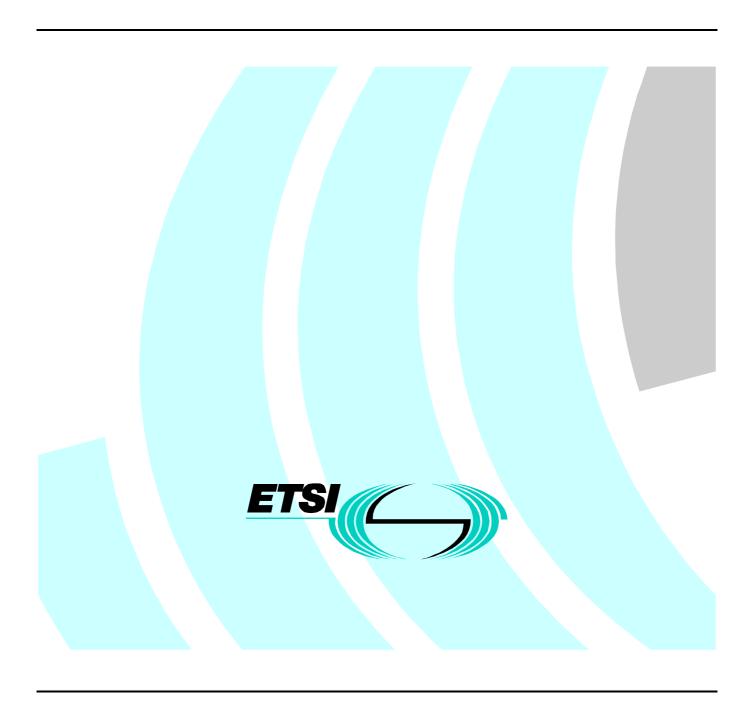# Final draft ETSI EN 300 182-3 V1.4.1 (2001-01)

European Standard (Telecommunications series)

**Integrated Services Digital Network (ISDN);
Advice of Charge (AOC) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 3: Test Suite Structure and Test Purposes (TSS&TP)
specification for the user**

Reference

REN/SPAN-130219-3

Keywords

AOC, DSS1, ISDN, supplementary service,
TSS&TP, user

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document is part 3 of a multi-part deliverable 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 identified 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".

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

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1   Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the User side of the
T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [6]) of
implementations conforming to the stage three standard for the Advice of Charge (AOC) supplementary service for the
pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System
No. one (DSS1) protocol, EN 300 182-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation
eXtra Information for Testing (PIXIT) proforma based on the present document. Other parts specify the TSS&TP and
the ATS and partial PIXIT proforma for the Network side of the T reference point or coincident S and T reference point
of implementations conforming to EN 300 182-1 [1].

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.

[1]   ETSI EN 300 182-1 (V1.3.6): "Integrated Services Digital Network (ISDN); Advice of Charge
           (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol;
           Part 1: Protocol specification".

[2]   ETSI EN 300 182-2 (V1.3.4): "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".

[3]   ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance
           testing methodology and framework; Part 1: General concepts".

[4]   ISO/IEC 9646-2 (1994): "Information technology; Open Systems Interconnection; Conformance
           testing methodology and framework; Part 2: Abstract Test Suite specification".

[5]   ETSI EN 300 196-1 (V1.2.2): "Integrated Services Digital Network (ISDN); Generic functional
           protocol for the support of supplementary services; Digital Subscriber Signalling System No. one
           (DSS1) protocol; Part 1: Protocol specification".

[6]   ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

[7]   ETSI EN 300 403-1 (V1.3.2): "Integrated Services Digital Network (ISDN); Digital Subscriber
           Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call
           control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

[8]   ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".

[9]   ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by
           an ISDN and the means to describe them".

[10]   ETSI ETS 300 196-2 (1996): "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".

[11]   ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile
           conformance testing specifications; Standardization methodology".

3   Definitions and abbreviations

3.1   Definitions

For the purposes of the present document, the following terms and definitions apply.

3.1.1   Definitions related to conformance testing

abstract test case: refer to ISO/IEC 9646-1 [3]

Abstract Test Suite (ATS): refer to ISO/IEC 9646-1 [3]

Implementation Under Test (IUT): refer to ISO/IEC 9646-1 [3]

Protocol Implementation Conformance Statement (PICS): refer to ISO/IEC 9646-1 [3]

PICS proforma: refer to ISO/IEC 9646-1 [3]

Protocol Implementation eXtra Information for Testing (PIXIT): refer to ISO/IEC 9646-1 [3]

PIXIT proforma: refer to ISO/IEC 9646-1 [3]

system under test: refer to ISO/IEC 9646-1 [3]

Test Purpose (TP): refer to ISO/IEC 9646-1 [3]

3.1.2   Definitions related to EN 300 182-1

call reference: see EN 300 403-1 [7], clause 4.3

component: see EN 300 196-1 [5], clause 11.2.2.1

Integrated Services Digital Network (ISDN): see ITU-T Recommendation I.112 [8], definition 308

invoke component: see EN 300 196-1 [5], clause 11.2.2.1

return error component: see EN 300 196-1 [5], clause 11.2.2.1

return result component: see EN 300 196-1 [5], clause 11.2.2.1

served user: served user is the user who invokes the AOC supplementary service

service; telecommunication service: see ITU-T Recommendation I.112 [8], definition 201

supplementary service: see ITU-T Recommendation I.210 [9], clause 2.4

user: DSS1 protocol entity at the User side of the user-network interface where a T reference point or coincident S and T reference point applies

3.2   Abbreviations

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

AOC	Advice of Charge
ATM	Abstract Test Method
ATS	Abstract Test Suite
DSS1	Digital Subscriber Signalling System No. one
GFP	Generic Functional Protocol
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement

PIXIT   Protocol Implementation eXtra Information for Testing
TP   Test Purpose
TSS   Test Suite Structure
U00   Null call state
U02   Overlap Sending call state
U03   Outgoing Call Proceeding call state
U04   Call Delivered call state
U06   Call Present call state
U07   Call Received call state
U08   Connect Request call state
U09   Incoming Call Proceeding call state
U10   Active call state
U11   Disconnect Request call state
U19   Release Request call state

4   Test Suite Structure (TSS)

NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 1: Test suite structure

5   Test Purposes (TP)

5.1   Introduction

For each test requirement a TP is defined.

5.1.1   TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier: **<ss>_<iut><group>_<nnn>**				
<ss>	=	supplementary service: e.g. "AOC"		
<iut>	=	type of IUT:	U	User
			N	Network
<group>	=	group	2 digit field representing group reference according to TSS	
<nnn>	=	sequential number	(001-999)	

5.1.2   Source of TP definition

The TPs are based on EN 300 182-1 [1].

5.1.3   TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used and this is illustrated in table 2. This table should be read in conjunction with any TP, i.e. use a TP as an example to fully understand the table.

Table 2: Structure of a single TP

TP part	Text	Example
Header	<Identifier> *tab* <paragraph number in base ETS> *tab*	see table 1 clause 0.0.0
Stimulus	Ensure that the IUT in the <basic call state> / <supplementary service state> <trigger> *see below for message structure* *or* <goal>	 U10 etc. /AOC-S Idle, ... receiving a XXXX message to request a ....
Reaction	<action> <conditions> *if the action is sending* *see below for message structure* <next action>, *etc.* and remains in the same state *or* and enters state <state>	sends, saves, does, etc. using en bloc sending, ...
Message structure	<message type> message containing a *a)* <info element> information element with *b)* a <field name> encoded as *or* including <coding of the field> and *back to a or b,*	SETUP, FACILITY, CONNECT, … Bearer capability, Facility, ...
NOTE:	Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one TP to the next.	

5.1.4   Test strategy

As the base standard EN 300 182-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification EN 300 182-2 [2].

The TPs are only based on conformance requirements related to the externally observable behaviour of the IUT, and are limited to conceivable situations to which a real implementation is likely to be faced (ETS 300 406 [11]).

All test purposes are mandatory unless they have selection criteria. Optional test purposes (with selection criteria) are applicable according to the configuration options of the IUT. The configuration option shall be covered by a PICS item.

5.2   User TPs for AOC

Unless specified:

-   the messages indicated are valid and contain at least the mandatory information elements and possibly optional information elements;

-   the information elements indicated are valid and contain at least the mandatory parameters and possibly optional parameters;

-   all PICS items referred to in this clause are as specified in EN 300 182-2 [2] unless indicated otherwise by another numbered reference.

5.2.1   Subscription option dependent

5.2.1.1   Per-call basis

> **Selection:** IUT supports procedures related to the subscription option "AOC requested on a per-call basis" (this applies to whole group). PICS: SC 1 or SC 2 or SC 3.

5.2.1.1.1   Activation

5.2.1.1.1.1   Normal

AOC_U01_001   clause 8.1.1

Ensure that the IUT in U00/AOC Idle state in order to activate the AOC-S supplementary service, sends a SETUP message including a Facility information element coded as chargingRequest invoke component indicating AOC-S and enters the U01/AOC Request state.

> **Selection:** AOC-S supported. PICS: MC 1.

AOC_U01_002   clause 8.1.1

Ensure that the IUT in U00/AOC Idle state in order to activate the AOC-D supplementary service, sends a SETUP message including a Facility information element coded as chargingRequest invoke component indicating AOC-D and enters the U01/AOC Request state.

> **Selection:** AOC-D supported. PICS: MC 2.

AOC_U01_003   clause 8.1.1

Ensure that the IUT in U00/AOC Idle state in order to activate the AOC-E supplementary service, sends a SETUP message including a Facility information element coded as chargingRequest invoke component indicating AOC-E and enters the U01/AOC Request state.

> **Selection:** AOC-E supported. PICS: MC 3.

AOC_U01_004   **clause 8.2.1.1**

Ensure that the IUT in U01/AOC Request state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element coded as chargingRequest return result component indicating "AOCSCurrencyInfoList", enters the U02/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_005   **clause 8.2.1.1**

Ensure that the IUT in U01/AOC Request state, on receipt of a CALL PROCEEDING message including a Facility information element coded as chargingRequest return result component indicating "AOCSCurrencyInfoList", enters the U03/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_006   **clause 8.2.1.1**

Ensure that the IUT in U03/AOC Request state, on receipt of a PROGRESS message including a Facility information element coded as chargingRequest return result component indicating "AOCSCurrencyInfoList", enters the U03/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_007   **clause 8.2.1.1**

Ensure that the IUT in U03/AOC Request state, on receipt of an ALERTING message including a Facility information element coded as chargingRequest return result component indicating "AOCSCurrencyInfoList", accepts the provided information, enters the U04/AOC Active state and sends no message.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_008   **clause 8.2.1.1**

Ensure that the IUT in U03/AOC Request state, on receipt of a CONNECT message including a Facility information element coded as chargingRequest return result component indicating "AOCSCurrencyInfoList", sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters the U10/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_009   **clause 8.2.1.1**

Ensure that the IUT in U01/AOC Request state, on receipt of a FACILITY message including a Facility information element coded as chargingRequest return result component indicating "AOCSCurrencyInfoList", enters the U01/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_010   **clause 8.2.1.1**

Ensure that the IUT in U01/AOC Request state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element coded as chargingRequest return result component indicating "AOCSSpecialArrInfo", enters the U02/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_011   **clause 8.2.1.1**

Ensure that the IUT in U01/AOC Request state, on receipt of a CALL PROCEEDING message including a Facility information element coded as chargingRequest return result component indicating "AOCSSpecialArrInfo", enters the U03/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_012   clause 8.2.1.1

Ensure that the IUT in U03/AOC Request state, on receipt of a PROGRESS message including a Facility information element coded as chargingRequest return result component indicating "AOCSSpecialArrInfo", enters the U03/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_013   clause 8.2.1.1

Ensure that the IUT in U03/AOC Request state, on receipt of an ALERTING message including a Facility information element coded as chargingRequest return result component indicating "AOCSSpecialArrInfo", enters the U04/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_014   clause 8.2.1.1

Ensure that the IUT in U03/AOC Request state, on receipt of a CONNECT message including a Facility information element coded as chargingRequest return result component indicating "AOCSSpecialArrInfo", sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters the U10/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_015   clause 8.2.1.1

Ensure that the IUT in U01/AOC Request state, on receipt of a FACILITY message including a Facility information element coded as chargingRequest return result component indicating "AOCSSpecialArrInfo", enters the U01/AOC Active state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U01_016   clause 8.1.1

Ensure that the IUT in U01/AOC Request state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element coded as chargingRequest return result component indicating "chargingInfoFollows", enters the U02/AOC Active state.

   Selection: AOC-D supported OR AOC-E supported. PICS: MC 2 or MC 3.

AOC_U01_017   clause 8.1.1

Ensure that the IUT in U01/AOC Request state, on receipt of a CALL PROCEEDING message including a Facility information element coded as chargingRequest return result component indicating "chargingInfoFollows", enters the U03/AOC Active state.

   Selection: AOC-D supported OR AOC-E supported. PICS: MC 2 or MC 3.

AOC_U01_018   clause 8.1.1

Ensure that the IUT in U03/AOC Request state, on receipt of a PROGRESS message including a Facility information element coded as chargingRequest return result component indicating "chargingInfoFollows", enters the U03/AOC Active state.

   Selection: AOC-D supported OR AOC-E supported. PICS: MC 2 or MC 3.

AOC_U01_019   clause 8.1.1

Ensure that the IUT in U03/AOC Request state, on receipt of an ALERTING message including a Facility information element coded as chargingRequest return result component indicating "chargingInfoFollows", enters the U04/AOC Active state.

   Selection: AOC-D supported OR AOC-E supported. PICS: MC 2 or MC 3.

AOC_U01_020   **clause 8.1.1**

Ensure that the IUT in U03/AOC Request state, on receipt of a CONNECT message including a Facility information element coded as chargingRequest return result component indicating "chargingInfoFollows", sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters the U10/AOC Active state.

    Selection: AOC-D supported OR AOC-E supported. PICS: MC 2 or MC 3.

AOC_U01_021   **clause 8.1.1**

Ensure that the IUT in U01/AOC Request state, on receipt of a FACILITY message including a Facility information element coded as chargingRequest return result component indicating "chargingInfoFollows", enters the U01/AOC Active state.

    Selection: AOC-D supported OR AOC-E supported. PICS: MC 2 or MC 3.

5.2.1.1.1.2   Exceptions

AOC_U02_001   **clause 8.1.2 c), d), e)**

Ensure that the IUT in U01/AOC Request state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element coded as chargingRequest return error component, continues normal call handling and enters U02/AOC Idle state.

AOC_U02_002   **clause 8.1.2 c), d), e)**

Ensure that the IUT in U01/AOC Request state, on receipt of a CALL PROCEEDING message including a Facility information element coded as chargingRequest return error component, continues normal call handling and enters U03/AOC Idle state.

AOC_U02_003   **clause 8.1.2 c), d), e)**

Ensure that the IUT in U03/AOC Request state, on receipt of a PROGRESS message including a Facility information element coded as chargingRequest return error component, continues normal call handling and enters U03/AOC Idle state.

AOC_U02_004   **clause 8.1.2 c), d), e)**

Ensure that the IUT in U03/AOC Request state, on receipt of an ALERTING message including a Facility information element coded as chargingRequest return error component, continues normal call handling and enters U04/AOC Idle state.

AOC_U02_005   **clause 8.1.2 c), d), e)**

Ensure that the IUT in U03/AOC Request state, on receipt of a CONNECT message including a Facility information element coded as chargingRequest return error component, continues normal call handling and enters U10/AOC Idle state.

AOC_U02_006   **clause 8.1.2 c), d), e)**

Ensure that the IUT in U01/AOC Request state, on receipt of a FACILITY message including a Facility information element coded as chargingRequest return error component, continues normal call handling and enters U01/AOC Idle state.

AOC_U02_007   **clause 8.1.2 f)**

Ensure that the IUT in U01/AOC Request state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element with a chargingRequest reject component, takes no protocol actions and enters U02/AOC Idle state.

AOC_U02_008   **clause 8.1.2 f)**

Ensure that the IUT in U01/AOC Request state, on receipt of a CALL PROCEEDING message including a Facility information element with a chargingRequest reject component, takes no protocol actions and enters U03/AOC Idle state.

AOC_U02_009   clause 8.1.2 f)

Ensure that the IUT in U03/AOC Request state, on receipt of a PROGRESS message including a Facility information element with a chargingRequest reject component, takes no protocol actions and enters U03/AOC Idle state.

AOC_U02_010   clause 8.1.2 f)

Ensure that the IUT in U03/AOC Request state, on receipt of an ALERTING message including a Facility information element with a chargingRequest reject component, takes no protocol actions and enters U04/AOC Idle state.

AOC_U02_011   clause 8.1.2 f)

Ensure that the IUT in U03/AOC Request state, on receipt of a CONNECT message including a Facility information element with a chargingRequest reject component, takes no protocol actions and enters U10/AOC Idle state.

AOC_U02_012   clause 8.1.2 f)

Ensure that the IUT in U01/AOC Request state, on receipt of a FACILITY message including a Facility information element with a chargingRequest reject component, takes no protocol actions and enters U01/AOC Idle state.

AOC_U02_013   clause 8.1.2 g)

Ensure that the IUT in U01/AOC Request state, after no response to a chargingRequest invoke component, on receipt of a CALL PROCEEDING with an AOCSCurrency invoke component, continues normal call handling and enters U03/AOC Request state.

  Selection: AOC-S supported. PICS: MC 1.

AOC_U02_014   clause 8.1.2 g)

Ensure that the IUT in U01/AOC Request state, after no response to a chargingRequest invoke component, on receipt of a CALL PROCEEDING with an AOCSSpecialArr invoke component, continues normal call handling and enters U03/AOC Request state.

  Selection: AOC-S supported. PICS: MC 1.

AOC_U02_015   clause 8.1.2 g)

Ensure that the IUT in U01/AOC Request state, after no response to a chargingRequest invoke component, on receipt of a CALL PROCEEDING with an AOCDCurrency invoke component, continues normal call handling and enters U03/AOC Request state.

  Selection: AOC-D supported. PICS: MC 2.

AOC_U02_016   clause 8.1.2 g)

Ensure that the IUT in U01/AOC Request state, after no response to a chargingRequest invoke component, on receipt of a CALL PROCEEDING with an AOCDChargingUnit invoke component, continues normal call handling and enters U03/AOC Request state.

  Selection: AOC-D supported. PICS: MC 2.

AOC_U02_017   clause 8.1.2 g)

Ensure that the IUT in U01/AOC Request state, after no response to a chargingRequest invoke component, on receipt of a CALL PROCEEDING with an AOCECurrency invoke component, continues normal call handling and enters U03/AOC Request state.

  Selection: AOC-E supported. PICS: MC 3.

AOC_U02_018   clause 8.1.2 g)

Ensure that the IUT in U01/AOC Request state, after no response to a chargingRequest invoke component, on receipt of a CALL PROCEEDING with AOCEChargingUnit invoke component, continues normal call handling and enters U03/AOC Request state.

  Selection: AOC-E supported. PICS: MC 3.

AOC_U02_019   clause 8.1.2 h)

Ensure that the IUT in U03/AOC Idle state, having received a chargingRequest return error component, on receipt of an ALERTING with an AOCSCurrency invoke component, accepts the information, sends no message and enters U04/AOC Idle state.

    Selection: AOC-S supported. PICS: MC 1.

AOC_U02_020   clause 8.1.2 h)

Ensure that the IUT in U03/AOC Idle state, having received a chargingRequest return error component, on receipt of an ALERTING with an AOCSSpecialArr invoke component, accepts the information, sends no message and enters U04/AOC Idle state.

    Selection: AOC-S supported. PICS: MC 1.

AOC_U02_021   clause 8.1.2 h)

Ensure that the IUT in U03/AOC Idle state, having received a chargingRequest reject component, on receipt of an ALERTING with an AOCSCurrency invoke component, accepts the information, sends no message and enters U04/AOC Idle state.

    Selection: AOC-S supported. PICS: MC 1.

AOC_U02_022   clause 8.1.2 h)

Ensure that the IUT in U03/AOC Idle state, having received a chargingRequest reject component, on receipt of an ALERTING with an AOCSSpecialArr invoke component, accepts the information, sends no message and enters U04/AOC Idle state.

    Selection: AOC-S supported. PICS: MC 1.

AOC_U02_023   clause 8.1.2 h)

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest return error component, on receipt of a FACILITY message containing a Facility information element with an AOCDCurrency invoke component, accepts the information, sends no message and remains in U10/AOC Idle state.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U02_024   clause 8.1.2 h)

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest return error component, on receipt of a FACILITY message containing a Facility information element with an AOCDChargingUnit invoke component, accepts the information, sends no message and remains in U10/AOC Idle state.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U02_025   clause 8.1.2 h)

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest reject component, on receipt of a FACILITY message containing a Facility information element with an AOCDCurrency invoke component, accepts the information, sends no message and remains in U10/AOC Idle state.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U02_026   clause 8.1.2 h)

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest reject component, on receipt of a FACILITY message containing a Facility information element with an AOCDChargingUnit invoke component, accepts the information, sends no message and remains in U10/AOC Idle state.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U02_027   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest return error component, on receipt of a DISCONNECT message containing a Facility information element with an AOCECurrency invoke component, accepts the information, returns a RELEASE message and enters U19/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_028   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest return error component, on receipt of a DISCONNECT message containing a Facility information element with an AOCEChargingUnit invoke component, accepts the information, returns a RELEASE message and enters U19/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_029   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest reject component, on receipt of a DISCONNECT message containing a Facility information element with an AOCECurrency invoke component, accepts the information, returns a RELEASE message and enters U19/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_030   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest reject component, on receipt of a DISCONNECT message containing a Facility information element with an AOCEChargingUnit invoke component, accepts the information, returns a RELEASE message and enters U19/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_031   **clause 8.1.2 h)**

Ensure that the IUT in U11/AOC Idle state, having received a chargingRequest return error component, on receipt of a RELEASE message containing a Facility information element with an AOCECurrency invoke component, accepts the information, returns a RELEASE COMPLETE message and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_032   **clause 8.1.2 h)**

Ensure that the IUT in U11/AOC Idle state, having received a chargingRequest return error component, on receipt of a RELEASE message containing a Facility information element with an AOCEChargingUnit invoke component, accepts the information, returns a RELEASE COMPLETE message and enters U00/AOC Idle state.

Selection: AOC-E supported. PICS: MC 3.

AOC_U02_033   **clause 8.1.2 h)**

Ensure that the IUT in U11/AOC Idle state, having received a chargingRequest reject component, on receipt of a RELEASE message containing a Facility information element with an AOCECurrency invoke component, accepts the information, returns a RELEASE COMPLETE message and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_034   **clause 8.1.2 h)**

Ensure that the IUT in U11/AOC Idle state, having received a chargingRequest reject component, on receipt of a RELEASE message containing a Facility information element with an AOCEChargingUnit invoke component, accepts the information, returns a RELEASE COMPLETE message and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_035   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest return error component, on receipt of a RELEASE COMPLETE message containing a Facility information element with an AOCECurrency invoke component, accepts the information and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_036   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest return error component, on receipt of a RELEASE COMPLETE message containing a Facility information element with an AOCEChargingUnit invoke component, accepts the information and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_037   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest reject component, on receipt of a RELEASE COMPLETE message containing a Facility information element with an AOCECurrency invoke component, accepts the information and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U02_038   **clause 8.1.2 h)**

Ensure that the IUT in U10/AOC Idle state, having received a chargingRequest reject component, on receipt of a RELEASE COMPLETE message containing a Facility information element with an AOCEChargingUnit invoke component, accepts the information and enters U00/AOC Idle state.

   Selection: AOC-E supported. PICS: MC 3.

5.2.1.1.2   GFP

   Selection: IUT supports procedures related to the subscription option "AOC requested on a per-call basis" (this applies to whole group). PICS: SC 1 or SC 2 or SC 3.

AOC_U03_001   **clause 8.2.1.1 & [5] clauses 8.2.2.4, 8.4.1**

Ensure that the IUT in U03/AOC Request state, on receipt of a CONNECT message including a Facility information element with an invalid chargingRequest return result component, sends a FACILITY message containing a Facility information element with a reject component, enters the U10 state and remains in the AOC Request state, or sends a CONNECT ACKNOWLEDGE message containing a Facility information element with a reject component, enters the U10 state and remains in the AOC Request state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U03_002   **clause 8.2.1.1 & [5] clauses 8.2.2.4, 8.4.1**

Ensure that the IUT in U10/AOC Request state, on receipt of a FACILITY message including a Facility information element with an invalid chargingRequest return result component, sends a FACILITY message containing a Facility information element with a reject component and remains in the U10/AOC Request state.

   Selection: AOC-S supported. PICS: MC 1.

5.2.1.2   All calls

5.2.1.2.1   Activation

5.2.1.2.1.1   Transfer - call establishment phase

AOC_U04_001   clause 8.2.1.1

Ensure that the IUT in U01/AOC Idle state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message and enters U02/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_002   clause 8.2.1.1

Ensure that the IUT in U01/AOC Idle state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message and enters U02/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_003   clause 8.2.1.1

Ensure that the IUT in U01/AOC Idle state, on receipt of a CALL PROCEEDING message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message and enters U03/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_004   clause 8.2.1.1

Ensure that the IUT in U01/AOC Idle state, on receipt of a CALL PROCEEDING message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message and enters U03/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_005   clause 8.2.1.1

Ensure that the IUT in U03/AOC Idle state, on receipt of a PROGRESS message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message and enters U03/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_006   clause 8.2.1.1

Ensure that the IUT in U03/AOC Idle state, on receipt of a PROGRESS message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message and enters U03/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_007   clause 8.2.1.1

Ensure that the IUT in U03/AOC Idle state, on receipt of an ALERTING message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message and enters U04/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U04_008   clause 8.2.1.1

Ensure that the IUT in U03/AOC Idle state, on receipt of an ALERTING message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message and enters U04/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

AOC_U04_009   clause 8.2.1.1

Ensure that the IUT in U03/AOC Idle state, on receipt of a CONNECT message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters U10/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

AOC_U04_010   clause 8.2.1.1

Ensure that the IUT in U03/AOC Idle state, on receipt of a CONNECT message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters U10/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

AOC_U04_011   clause 8.2.1.1

Ensure that the IUT in U01/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message and enters U01/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

AOC_U04_012   clause 8.2.1.1

Ensure that the IUT in U01/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message and enters U01/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

5.2.1.2.1.2   Exceptions

AOC_U05_001   clause 8.1.2 a)

Ensure that the IUT in U01/AOC Idle state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U02/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

AOC_U05_002   clause 8.1.2 a)

Ensure that the IUT in U01/AOC Idle state, on receipt of a SETUP ACKNOWLEDGE message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U02/AOC Idle state.

>   **Selection:** AOC-S supported. PICS: MC 1.

AOC_U05_003   **clause 8.1.2 a)**

Ensure that the IUT in U01/AOC Idle state, on receipt of a CALL PROCEEDING message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U03/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_004   **clause 8.1.2 a)**

Ensure that the IUT in U01/AOC Idle state, on receipt of a CALL PROCEEDING message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U03/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_005   **clause 8.1.2 a)**

Ensure that the IUT in U03/AOC Idle state, on receipt of a PROGRESS message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U03/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_006   **clause 8.1.2 a)**

Ensure that the IUT in U03/AOC Idle state, on receipt of a PROGRESS message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U03/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_007   **clause 8.1.2 a)**

Ensure that the IUT in U03/AOC Idle state, on receipt of an ALERTING message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U04/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_008   **clause 8.1.2 a)**

Ensure that the IUT in U03/AOC Idle state, on receipt of an ALERTING message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U04/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_009   **clause 8.1.2 a)**

Ensure that the IUT in U03/AOC Idle state, on receipt of a CONNECT message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters U10/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_010   **clause 8.1.2 a)**

Ensure that the IUT in U03/AOC Idle state, on receipt of a CONNECT message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message or sends a CONNECT ACKNOWLEDGE containing no component related to the received component and enters U10/AOC Idle state.

     Selection: AOC-S supported. PICS: MC 1.

AOC_U05_011   clause 8.1.2 a)

Ensure that the IUT in U01/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U01/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U05_012   clause 8.1.2 a)

Ensure that the IUT in U01/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and enters U01/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U05_013   clause 8.1.2 a)

Ensure that the IUT in U10/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCDCurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and remains in the same state.

Selection: AOC-D supported. PICS: MC 2.

AOC_U05_014   clause 8.1.2 a)

Ensure that the IUT in U10/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and remains in the same state.

Selection: AOC-D supported. PICS: MC 2.

AOC_U05_015   clause 8.1.2 a)

Ensure that the IUT in U10/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and remains in the same state.

Selection: AOC-E supported. PICS: MC 3.

AOC_U05_016   clause 8.1.2 a)

Ensure that the IUT in U10/AOC Idle state, on receipt of a FACILITY message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information, sends no message and remains in the same state.

Selection: AOC-E supported. PICS: MC 3.

5.2.1.2.1.3   GFP

AOC_U06_001   clause 8.1.2 & [5] clause 8.2.2.4, 8.4.1

Ensure that the IUT in U01/AOC Idle state, having received a FACILITY message including a Facility information element with a correctly coded AOCSCurrency invoke component, on receipt of a FACILITY message including a Facility information element with a reject component, sends no message and remains in U01/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U06_002   clause 8.1.2 & [5] clause 8.2.2.4, 8.4.1

Ensure that the IUT in U01/AOC Idle state, having received a FACILITY message including a Facility information element with a correctly coded AOCSSpecialArr invoke component, on receipt of a FACILITY message including a Facility information element with a reject component, sends no message and remains in U01/AOC Idle state.

Selection: AOC-S supported. PICS: MC 1.

AOC_U06_003   clause 8.1.2 & [5] clause 8.2.2.4, 8.4.1

Ensure that the IUT in U10/AOC Idle state, having received a FACILITY message including a Facility information element with a correctly coded AOCDCurrency invoke component, on receipt of a FACILITY message including a Facility information element with a reject component, sends no message and remains in U10/AOC Idle state.

> **Selection:** AOC-D supported. PICS: MC 2.

AOC_U06_004   clause 8.1.2 & [5] clause 8.2.2.4, 8.4.1

Ensure that the IUT in U10/AOC Idle state, having received a FACILITY message including a Facility information element with a correctly coded AOCDChargingUnit invoke component, on receipt of a FACILITY message including a Facility information element with a reject component, sends no message and remains in U10/AOC Idle state.

> **Selection:** AOC-D supported. PICS: MC 2.

5.2.2   Subscription option independent

> NOTE: In the remaining TPs it is assumed that the initial AOC state is: a) "Idle" if AOC subscribed for all calls; or b) "Active" if AOC subscribed on a per-call basis.

5.2.2.1   Independent of bearer

> **Selection:** "Transfer of AOC-E charging information independent of a bearer" supported. PICS: MC 7.

5.2.2.1.1   Normal

AOC_U07_001   clause 8.2.4.1

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via broadcast datalink and including a Facility information element with a correctly coded AOCECurrency invoke component indicating "AOCECurrencyInfo", accepts the provided information and sends no message.

> **Selection:** Bearer independent broadcast connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U07_002   clause 8.2.4.1

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via broadcast datalink and including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "AOCEChargingUnitInfo", accepts the provided information and sends no message.

> **Selection:** Bearer independent broadcast connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U07_003   clause 8.2.4.1

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via point-to-point datalink and including a Facility information element with a correctly coded AOCECurrency invoke component indicating "AOCECurrencyInfo", accepts the provided information and sends no message.

> **Selection:** Bearer independent point-to-point connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.6.

AOC_U07_004   clause 8.2.4.1

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via point-to-point datalink and including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "AOCEChargingUnitInfo", accepts the provided information and sends no message.

> **Selection:** Bearer independent point-to-point connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.6.

AOC_U07_005   **clause 8.2.4.2**

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via broadcast data link and including a Facility information element with a correctly encoded AOCECurrency invoke component indicating "chargeNotAvailable", accepts the provided information and sends no message.

     Selection: Bearer independent broadcast connectionless transport mechanism. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U07_006   **clause 8.2.4.2**

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via broadcast data link and including a Facility information element with a correctly encoded AOCEChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and sends no message.

     Selection: Bearer independent broadcast connectionless transport mechanism. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U07_007   **clause 8.2.4.2**

Ensure that the IUT, if more than one charging unit is used and not all types are available, on receipt of a FACILITY message using the dummy call reference via broadcast data link and including a Facility information element with a correctly encoded AOCEChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and sends no message.

     Selection: Bearer independent broadcast connectionless transport mechanism. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U07_008   **clause 8.2.4.2**

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via point-to-point data link and including a Facility information element with a correctly encoded AOCECurrency invoke component indicating "chargeNotAvailable", accepts the provided information and sends no message.

     Selection: Bearer independent point-to-point connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.6.

AOC_U07_009   **clause 8.2.4.2**

Ensure that the IUT on receipt of a FACILITY message using the dummy call reference via point-to-point data link and including a Facility information element with a correctly encoded AOCEChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and sends no message.

     Selection: Bearer independent point-to-point connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.6.

AOC_U07_010   **clause 8.2.4.2**

Ensure that the IUT, if more than one charging unit is used and not all types are available, on receipt of a FACILITY message using the dummy call reference via point-to-point data link and including a Facility information element with a correctly encoded AOCEChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and sends no message.

     Selection: Bearer independent point-to-point connectionless transport mechanism supported. PICS: ETS 300 196-2 [10] MCu 2.6.

5.2.2.1.2   GFP

AOC_U08_001   **[5] clause 8.3.2.4.2**

Ensure that the IUT in AOC Idle state receiving a FACILITY message, using the dummy call reference via broadcast datalink, containing a Facility information element with an invalid protocol profile, ignores the message.

     Selection: Bearer independent broadcast connectionless transport mechanism. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U08_002   [5] clause 8.3.2.4.2

Ensure that the IUT in AOC Idle state receiving FACILITY message, using the dummy call reference via broadcast datalink, without a Facility information element, ignores the message.

   Selection: Bearer independent broadcast connectionless transport mechanism. PICS: ETS 300 196-2 [10] MCu 2.7.

AOC_U08_003   [5] clause 8.3.2.2.2

Ensure that the IUT in AOC Idle state receiving a FACILITY message, using the dummy call reference via point-to-point datalink, containing a Facility information element with an invalid protocol profile, ignores the message.

   Selection: Bearer independent point-to-point connectionless transport mechanism supported. PICS:
            ETS 300 196-2 [10] MCu 2.6.

AOC_U08_004   [5] clause 8.3.2.2.2

Ensure that the IUT in AOC Idle state receiving FACILITY message, using the dummy call reference via point-to-point datalink, without a Facility information element, ignores the message.

   Selection: Bearer independent point-to-point connectionless transport mechanism supported. PICS:
            ETS 300 196-2 [10] MCu 2.6.

AOC_U08_005   [5] clauses 8.3.2.2.2 and 8.3.2.4.2

Ensure that the IUT in AOC Idle state receiving a message other than FACILITY with a dummy call reference and this message does not apply to some other application of the dummy call reference, ignores the message.

5.2.2.2   Transfer - active phase

   NOTE: The TPs in this clause represent the case when there is a change in the charging rate and this change is
            reported by the network to the user.

AOC_U09_001   clause 8.2.2.1

Ensure that the IUT in Active Call (U10) state, on receipt of a FACILITY message including a Facility information element coded as AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information, sends no message and remains in the same state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U09_002   clause 8.2.2.1

Ensure that the IUT in Active Call (U10) state, on receipt of a FACILITY message including a Facility information element coded as AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information, sends no message and remains in the same state.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U09_003   clause 8.2.2.1.

Ensure that the IUT in Active Call (U10) state, on receipt of a FACILITY message including a Facility information element coded as AOCDCurrency invoke component indicating "AOCDCurrencyInfo", accepts the provided information, sends no message and remains in the same state.

   Selection: AOC-D supported. PICS: MC 2.

AOC_U09_004   clause 8.2.2.1.

Ensure that the IUT in Active Call (U10) state, on receipt of a FACILITY message including a Facility information element coded as AOCDChargingUnit invoke component indicating "AOCDChargingUnitInfo", accepts the provided information, sends no message and remains in the same state.

   Selection: AOC-D supported. PICS: MC 2.

5.2.2.3   Transfer - clearing phase

AOC_U10_001   clause 8.2.3.1

Ensure that the IUT in Call Delivered (U04) state, on receipt of a DISCONNECT message including a Facility information element coded as AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_002   clause 8.2.3.1

Ensure that the IUT in Call Delivered (U04) state, on receipt of a DISCONNECT message including a Facility information element coded as AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_003   clause 8.2.3.1

Ensure that the IUT in Disconnect Request (U11) state entered during premature call clearing, on receipt of a RELEASE message including a Facility information element coded as AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_004   clause 8.2.3.1

Ensure that the IUT in Disconnect Request (U11) state entered during premature call clearing, on receipt of a RELEASE message including a Facility information element coded as AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_005   clause 8.2.3.1

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element coded as AOCSCurrency invoke component indicating "AOCSCurrencyInfoList", accepts the provided information and enters state U00.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_006   clause 8.2.3.1

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element coded as AOCSSpecialArr invoke component indicating "AOCSSpecialArrInfo", accepts the provided information and enters state U00.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_007   clause 8.2.3.1

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element coded as AOCDCurrency invoke component indicating "AOCDCurrencyInfo", accepts the provided information and continues normal call handling.

   Selection: AOC-D supported. PICS: MC 2.

AOC_U10_008   clause 8.2.3.1

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element coded as AOCDChargingUnit invoke component indicating "AOCDChargingUnitInfo", accepts the provided information and continues normal call handling.

   Selection: AOC-D supported. PICS: MC 2.

AOC_U10_009 **clause 8.2.3.1**

Ensure that the IUT in DISCONNECT request (U11) state, on receipt of a RELEASE message including a Facility information element coded as AOCDCurrency invoke component indicating "AOCDCurrencyInfo", accepts the provided information and continues normal call handling.

Selection: AOC-D supported. PICS: MC 2.

AOC_U10_010 **clause 8.2.3.1**

Ensure that the IUT in DISCONNECT request (U11) state, on receipt of a RELEASE message including a Facility information element coded as AOCDChargingUnit invoke component indicating "AOCDChargingUnitInfo", accepts the provided information and continues normal call handling.

Selection: AOC-D supported. PICS: MC 2.

AOC_U10_011 **clause 8.2.3.1**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element coded as AOCDCurrency invoke component indicating "AOCDCurrencyInfo", accepts the provided information and enters state U00.

Selection: AOC-D supported. PICS: MC 2.

AOC_U10_012 **clause 8.2.3.1**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element coded as AOCDChargingUnit invoke component indicating "AOCDChargingUnitInfo", accepts the provided information and enters state U00.

Selection: AOC-D supported. PICS: MC 2.

AOC_U10_013 **clause 8.2.3.1**

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "AOCECurrencyInfo", accepts the provided information and continues normal call handling.

Selection: AOC-E supported. PICS: MC 3.

AOC_U10_014 **clause 8.2.3.1**

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "AOCEChargingUnitInfo", accepts the provided information and continues normal call handling.

Selection: AOC-E supported. PICS: MC 3.

AOC_U10_015 **clause 8.2.3.1**

Ensure that the IUT in DISCONNECT request (U11) state, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "AOCECurrencyInfo", accepts the provided information and continues normal call handling.

Selection: AOC-E supported. PICS: MC 3.

AOC_U10_016 **clause 8.2.3.1**

Ensure that the IUT in DISCONNECT request (U11) state, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "AOCEChargingUnitInfo", accepts the provided information and continues normal call handling.

Selection: AOC-E supported. PICS: MC 3.

AOC_U10_017   **clause 8.2.3.1**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "AOCECurrencyInfo", accepts the provided information and enters state U00.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U10_018   **clause 8.2.3.1**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "AOCEChargingUnitInfo", accepts the provided information and enters state U00.

   Selection: AOC-E supported. PICS: MC 3.

AOC_U10_019   **clause 8.2.3.2**

Ensure that the IUT in Call Delivered (U04) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_020   **clause 8.2.3.2**

Ensure that the IUT in Call Delivered (U04) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_021   **clause 8.2.3.2**

Ensure that the IUT in Disconnect request (U11) state entered during premature call clearing, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_022   **clause 8.2.3.2**

Ensure that the IUT in Disconnect request (U11) state entered during premature call clearing, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_023   **clause 8.2.3.2**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCSCurrency invoke component indicating "chargeNotAvailable", accepts the provided information and enters state U00.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_024   **clause 8.2.3.2**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCSSpecialArr invoke component indicating "chargeNotAvailable", accepts the provided information and enters state U00.

   Selection: AOC-S supported. PICS: MC 1.

AOC_U10_025   clause 8.2.3.2

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCDCurrency invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_026   clause 8.2.3.2

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_027   clause 8.2.3.2

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and continues normal call handling.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_028   clause 8.2.3.2

Ensure that the IUT in Disconnect request (U11) state, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCDCurrency invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_029   clause 8.2.3.2

Ensure that the IUT in Disconnect request (U11) state, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_030   clause 8.2.3.2

Ensure that the IUT in Disconnect request (U11) State, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and continues normal call handling.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_031   clause 8.2.3.2

Ensure that the IUT in Release request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCDCurrency invoke component indicating "chargeNotAvailable", accepts the provided information and enters state U00.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_032   clause 8.2.3.2

Ensure that the IUT in Release request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and enters state U00.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_033   clause 8.2.3.2

Ensure that the IUT in Release request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCDChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and enters state U00.

    Selection: AOC-D supported. PICS: MC 2.

AOC_U10_034   clause 8.2.3.2

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_035   clause 8.2.3.2

Ensure that the IUT in Active Call (U10) state, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_036   clause 8.2.3.2

Ensure that the IUT in Active Call (U10) State, on receipt of a DISCONNECT message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and continues normal call handling.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_037   clause 8.2.3.2

Ensure that the IUT in Disconnect Request (U11) state, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_038   clause 8.2.3.2

Ensure that the IUT in Disconnect Request (U11) state, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and continues normal call handling.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_039   clause 8.2.3.2

Ensure that the IUT in Disconnect Request (U11) State, on receipt of a RELEASE message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and continues normal call handling.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_040   clause 8.2.3.2

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCECurrency invoke component indicating "chargeNotAvailable", accepts the provided information and enters state U00.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_041 **clause 8.2.3.2**

Ensure that the IUT in Release Request (U19) state, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating "chargeNotAvailable", accepts the provided information and enters state U00.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_042 **clause 8.2.3.2**

Ensure that the IUT in Release Request (U19) State, on receipt of a RELEASE COMPLETE message including a Facility information element with a correctly coded AOCEChargingUnit invoke component indicating the available charging information and "notAvailable" for the remaining charging unit types, accepts the provided information and enters state U00.

    Selection: AOC-E supported. PICS: MC 3.

AOC_U10_043 **clause 8.2.3.1**

Ensure that the IUT in Call Delivered (U04)/AOC request (for AOC-S) state, on receipt of a DISCONNECT message including a Facility information element coded as ChargingRequest return result component indicating "AOCSCurrencyInfoList", accepts the provided information and continues normal call handling.

    Selection: AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_044 **clause 8.2.3.1**

Ensure that the IUT in Call Delivered (U04)/AOC request (for AOC-S) state, on receipt of a DISCONNECT message including a Facility information element coded as ChargingRequest return result component indicating "AOCSSpecialArrInfo", accepts the provided information and continues normal call handling.

    Selection: AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_045 **clause 8.2.3.1**

Ensure that the IUT in Disconnect Request (U11)/AOC request (for AOC-S) state during premature call clearing, on receipt of a RELEASE message including a Facility information element coded as ChargingRequest return result component indicating "AOCSCurrencyInfoList", accepts the provided information and continues normal call handling.

    Selection: AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_046 **clause 8.2.3.1**

Ensure that the IUT in Disconnect Request (U11)/AOC request (for AOC-S) state during premature call clearing, on receipt of a RELEASE message including a Facility information element coded as ChargingRequest return result component indicating "AOCSSpecialArrInfo", accepts the provided information and continues normal call handling.

    Selection: AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_047 **clause 8.2.3.1**

Ensure that the IUT in Release Request (U19)/AOC request (for AOC-S) state during premature call clearing, on receipt of a RELEASE COMPLETE message including a Facility information element coded as ChargingRequest return result component indicating "AOCSCurrencyInfoList", accepts the provided information and enters state U00.

    Selection: AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_048 **clause 8.2.3.1**

Ensure that the IUT in Release Request (U19)/AOC request (for AOC-S) state during premature call clearing, on receipt of a RELEASE COMPLETE message including a Facility information element coded as ChargingRequest return result component indicating "AOCSSpecialArrInfo", accepts the provided information and enters state U00.

    Selection: AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_049 **clause 8.2.3.2**

Ensure that the IUT in Call Delivered (U04)/AOC request (for AOC-S) state, on receipt of a DISCONNECT message including a Facility information element coded as ChargingRequest return error component indicating "noChargingInfoAvailable", accepts the provided information and continues normal call handling.

> **Selection:** AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_050 **clause 8.2.3.2** **inopportune**

Ensure that the IUT in Disconnect Request (U11)/AOC request (for AOC-S) state during premature call clearing, on receipt of a RELEASE message including a Facility information element coded as ChargingRequest return error component indicating "noChargingInfoAvailable ", accepts the provided information and continues normal call handling.

> **Selection:** AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

AOC_U10_051 **clause 8.2.3.2** **inopportune**

Ensure that the IUT in Release Request (U19)/AOC request (for AOC-S) state during premature call clearing, on receipt of a RELEASE COMPLETE message including a Facility information element coded as ChargingRequest return error component indicating "noChargingInfoAvailable ", accepts the provided information and enters state U00.

> **Selection:** AOC-S supported. PICS: MC 1 AND AOC-S supported on a per-call basis PICS: SC1.

6 Compliance

An ATS, which complies with the present document, shall:

a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 5;

b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 4;

c) use the same naming conventions for the test groups and test cases;

d) maintain the relationship specified in clause 5 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;

e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 5 shall be included in a compliant ATS.

7 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [4], shall be used by any organization claiming to provide a comprehensive testing service for user equipment claiming conformance to EN 300 182-1 [1].

Annex A (informative):
Changes with respect to the previous EN 300 182-3 v.1.3.2

The following changes have been done:

- several TPs in clause 5.2.2.3 changed according to modifications to clause 8.2.3 in EN 300 182-1 [1] and new TPs added to cover new procedures for AOC-S per call;

- references to EN 300 182-1 [1] updated (clauses have been renumbered in that document).

History

Document history		
Edition 1	September 1996	Publication as ETS 300 182-3
V1.2.4	June 1998	Publication
V1.3.2	May 2000	Publication
V1.4.1	January 2001	One-step Approval Procedure OAP 20010601: 2001-01-31 to 2001-06-01