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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

ETSI

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 3 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:   "TSS&TP specification for the network";

Part 6:   "ATS and partial PIXIT proforma specification for the network".

Transposition dates	
Date of adoption of this ETS:	30 August 1996
Date of latest announcement of this ETS (doa):	31 December 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 June 1997
Date of withdrawal of any conflicting National Standard (dow):	30 June 1997

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1 Scope

This third part of ETS 300 182 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 [7]) 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, ETS 300 182-1 [1].

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this ETS. 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 ETS 300 182-1 [1].

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]   ETS 300 182-1 (1993): "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[2]   ETS 300 182-2 (1995): "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: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".

[4]   ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".

[5]   ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".

[6]   ETS 300 196-1 (1993): "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".

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

[8]   ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

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

[10]   CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".

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

[12]   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".

3 Definitions

For the purposes of this ETS, the following definitions apply:

3.1 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].

implicit send event: Refer to ISO/IEC 9646-3 [5].

lower tester: Refer to ISO/IEC 9646-1 [3].

point of control and observation: 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].

3.2 Definitions related to ETS 300 182-1

call reference: See ETS 300 102-1 [8], subclause 4.3.

component: See ETS 300 196-1 [6], subclause 11.2.2.1.

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [9], definition 308.

invoke component: See ETS 300 196-1 [6], subclause 11.2.2.1.

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [10].

return error component: See ETS 300 196-1 [6], subclause 11.2.2.1.

return result component: See ETS 300 196-1 [6], subclause 11.2.2.1.

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

service; telecommunication service: See ITU-T Recommendation I.112 [9], definition 201.

supplementary service: See ITU-T Recommendation I.210 [11], subclause 2.4.

user: The 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.

user (S/T): The DSS1 protocol entity at the User side of the user-network interface where a coincident S and T reference point applies.

user (T): The DSS1 protocol entity at the User side of the user-network interface where a T reference point applies (User is a Private ISDN).

4 Abbreviations

For the purposes of this ETS, 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
U12	Disconnect Indication call state
U19	Release Request call state
U25	Overlap Receiving call state

5 Test Suite Structure (TSS)

AOC - User

```
                        AOC - User
                            |
            ┌───────────────┴───────────────┐
    Subscription option             Subscription option
        dependent                      independent
            |                               |
    ┌───────┴───────┐                       |
Per-call basis    All calls                 |
    |               |                       |
┌───┴───┐           |                       |
Activation  GFP     |                       |
         (03)       |                       |
┌────┴────┐         |                       |
Normal  Exceptions  |                       |
(01)    (02)        |                       |
            ┌───────┴───────┐               |
        Activation   Independent of bearer  |
            |               |               |
            |           ┌───┴───┐           |
            |         Normal  GFP           |
            |         (07)    (08)          |
    ┌───────┼───────┐           ┌───────────┴───────────┐
Transfer - Call  Exceptions  GFP   Transfer - Active   Transfer - Clearing
   Est        (05)        (06)        (09)                (10)
   (04)
```

NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.
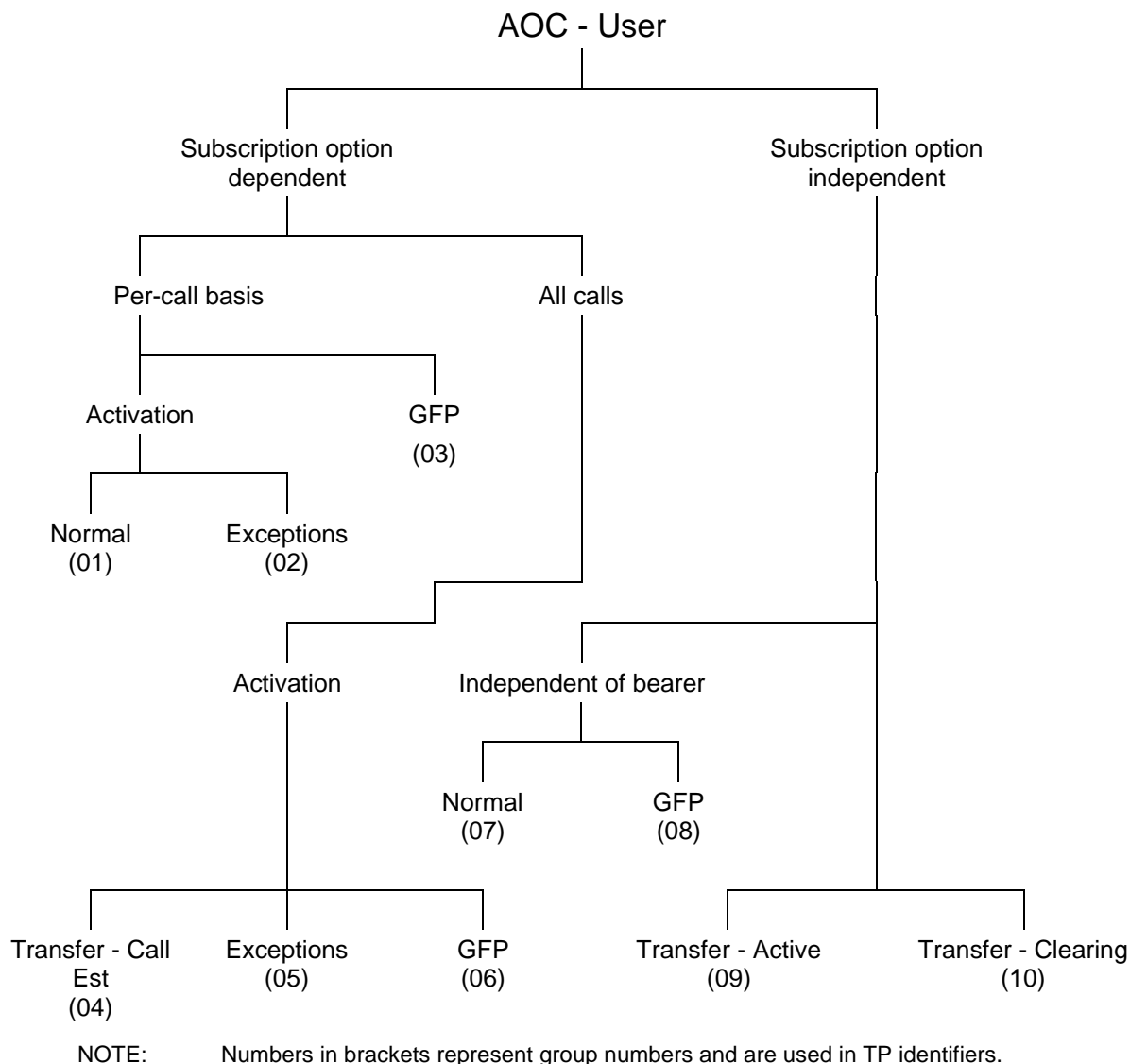
Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 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)

6.1.2   Source of TP definition

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

6.1.3   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* **<type of test>** *tab* **<condition>** *CR*	see table 1 **subclause 0.0.0** **valid, invalid, inopportune** **mandatory, optional, conditional**
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.	

6.1.4   Test strategy

As the base standard ETS 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 ETS 300 182-2 [2]. The criteria applied include the following:

-        only the requirements from the point of view of the T or coincident S and T reference point are considered;

-        whether or not a test case can be built from the TP is not considered.

6.2   User TPs for AOC

All PICS items referred to in this subclause are as specified in ETS 300 182-2 [2] unless indicated otherwise by another numbered reference.

6.2.1   Subscription option dependent

6.2.1.1   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.

6.2.1.1.1   Activation

6.2.1.1.1.1   Normal

AOC_U01_001   subclause 9.1.1   valid   optional
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   subclause 9.1.1   valid   optional
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   subclause 9.1.1   valid   optional
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   subclause 9.2.1.1   valid   optional
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   subclause 9.2.1.1   valid   optional
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.2.1.1**   **valid**   **optional**
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   **subclause 9.1.1**   **valid**   **optional**
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   **subclause 9.1.1**   **valid**   **optional**
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   **subclause 9.1.1**   **valid**   **optional**
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   **subclause 9.1.1**   **valid**   **optional**
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   **subclause 9.1.1**   **valid**   **optional**
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   **subclause 9.1.1**   **valid**   **optional**
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.

6.2.1.1.1.2   Exceptions

AOC_U02_001   **subclause 9.1.2 c), d), e)**   **inopportune**   **mandatory**
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   **subclause 9.1.2 c), d), e)**   **inopportune**   **mandatory**
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   **subclause 9.1.2 c), d), e)**   **inopportune**   **mandatory**
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   subclause 9.1.2 c), d), e)   inopportune   mandatory
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   subclause 9.1.2 c), d), e)   inopportune   mandatory
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   subclause 9.1.2 c), d), e)   inopportune   mandatory
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   subclause 9.1.2 f)   inopportune   mandatory
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   subclause 9.1.2 f)   inopportune   mandatory
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   subclause 9.1.2 f)   inopportune   mandatory
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   subclause 9.1.2 f)   inopportune   mandatory
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   subclause 9.1.2 f)   inopportune   mandatory
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   subclause 9.1.2 f)   inopportune   mandatory
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   subclause 9.1.2 g)   inopportune   optional
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   subclause 9.1.2 g)   inopportune   optional
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   subclause 9.1.2 g)   inopportune   optional
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   **subclause 9.1.2 g)**   **inopportune**   **optional**
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   **subclause 9.1.2 g)**   **inopportune**   **optional**
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   **subclause 9.1.2 g)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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 **subclause 9.1.2 h)** **inopportune** **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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   **subclause 9.1.2 h)**   **inopportune**   **optional**
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.

6.2.1.1.2   **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   **subclause 9.2.1.1 & [6] subclauses 8.2.2.4, 8.4.1**   **invalid**   **optional**
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   **subclause 9.2.1.1 & [6] subclauses 8.2.2.4, 8.4.1**   **invalid**   **optional**
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.

6.2.1.2   **All calls**

6.2.1.2.1   **Activation**

6.2.1.2.1.1   **Transfer - call establishment phase**

AOC_U04_001   **subclause 9.2.1.1**   **valid**   **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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 **subclause 9.2.1.1** **valid** **optional**
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_0010   **subclause 9.2.1.1**   **valid**   **optional**
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_0011   **subclause 9.2.1.1**   **valid**   **optional**
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_0012   **subclause 9.2.1.1**   **valid**   **optional**
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.

6.2.1.2.1.2   Exceptions

AOC_U05_001   **subclause 9.1.2 a)**   **inopportune**   **optional**
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   **subclause 9.1.2 a)**   **inopportune**   **optional**
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   **subclause 9.1.2 a)**   **inopportune**   **optional**
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   **subclause 9.1.2 a)**   **inopportune**   **optional**
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   **subclause 9.1.2 a)**   **inopportune**   **optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　**inopportune**　　**optional**
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　　　　**subclause 9.1.2 a)**　　　　　　**inopportune**　　**optional**
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.

6.2.1.2.1.3　　　　**GFP**

AOC_U06_001　　　　**subclause 9.1.2 & [6] subclause 8.2.2.4, 8.4.1**　**valid**　　**optional**
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　　　　**subclause 9.1.2 & [6] subclause 8.2.2.4, 8.4.1**　**valid**　　**optional**
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　　　　**subclause 9.1.2 & [6] subclause 8.2.2.4, 8.4.1**　**valid**　　**optional**
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　　　　**subclause 9.1.2 & [6] subclause 8.2.2.4, 8.4.1**　**valid**　　**optional**
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.

6.2.2 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.

6.2.2.1 Independent of bearer

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

6.2.2.1.1 Normal

AOC_U07_001   subclause 9.2.4.1   **valid**   **optional**
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: [12] MCu 2.7.

AOC_U07_002   subclause 9.2.4.1   **valid**   **optional**
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: [12] MCu 2.7.

AOC_U07_003   subclause 9.2.4.1   **valid**   **optional**
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: [12] MCu 2.6.

AOC_U07_004   subclause 9.2.4.1   **valid**   **optional**
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: [12] MCu 2.6.

AOC_U07_005   subclause 9.2.4.2   **inopportune**   **optional**
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: [12] MCu 2.7.

AOC_U07_006   subclause 9.2.4.2   **inopportune**   **optional**
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: [12] MCu 2.7.

AOC_U07_007   **subclause 9.2.4.2**   **inopportune**   **optional**
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: [12] MCu 2.7.

AOC_U07_008   **subclause 9.2.4.2**   **inopportune**   **optional**
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: [12] MCu 2.6.

AOC_U07_009   **subclause 9.2.4.2**   **inopportune**   **optional**
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: [12] MCu 2.6.

AOC_U07_010   **subclause 9.2.4.2**   **inopportune**   **optional**
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: [12] MCu 2.6.

6.2.2.1.2   **GFP**

AOC_U08_001   **[6] subclauses 8.3.2.2.2 & 8.3.2.4.2**   **invalid**   **optional**
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: [12] MCu 2.7.

AOC_U08_002   **[6] subclauses 8.3.2.2.2 & 8.3.2.4.2**   **invalid**   **optional**
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: [12] MCu 2.7.

AOC_U08_003   **[6] subclauses 8.3.2.2.2 & 8.3.2.4.2**   **invalid**   **optional**
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: [12] MCu 2.6.

AOC_U08_004   **[6] subclauses 8.3.2.2.2 & 8.3.2.4.2**   **invalid**   **optional**
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: [12] MCu 2.6.

AOC_U08_005   **[6] subclauses 8.3.2.2.2 & 8.3.2.4.2**   **inopportune**   **mandatory**
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.

6.2.2.2   Transfer - active phase

    NOTE: The TPs in this subclause 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   **subclause 9.2.2.1**   **valid**   **optional**
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   **subclause 9.2.2.1**   **valid**   **optional**
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   **subclause 9.2.2.1.**   **valid**   **optional**
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   **subclause 9.2.2.1.**   **valid**   **optional**
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.

6.2.2.3   Transfer - clearing phase

AOC_U10_001   **subclause 9.2.3.1**   **valid**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.1**   **valid**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.1**   **valid**   **optional**
Ensure that the IUT in Active Call (U10) state, 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   **subclause 9.2.3.1**   **valid**   **optional**
Ensure that the IUT in Active Call (U10) state, 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   **subclause 9.2.3.1**   **valid**   **optional**
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   **subclause 9.2.3.1**   **valid**   **optional**
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   **subclause 9.2.3.1**   **valid**   **optional**
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   **subclause 9.2.3.1**   **valid**   **optional**
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   **subclause 9.2.3.1**   **valid**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.1**   **valid**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.1**   **valid**   **optional**
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   **subclause 9.2.3.1**   **valid**   **optional**
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   subclause 9.2.3.1   valid   optional
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   subclause 9.2.3.1   valid   optional
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   subclause 9.2.3.1   valid   optional
Ensure that the IUT in Active Call (U10) 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   subclause 9.2.3.1   valid   optional
Ensure that the IUT in Active Call (U10) 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   subclause 9.2.3.1   valid   optional
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   subclause 9.2.3.1   valid   optional
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   subclause 9.2.3.2   inopportune   optional
Ensure that the IUT in Active Call (U10) 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   subclause 9.2.3.2   inopportune   optional
Ensure that the IUT in Active Call (U10) 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   subclause 9.2.3.2   inopportune   optional
Ensure that the IUT in Active Call (U10) state, 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) state, 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.2**   **inopportune**   **optional**
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   **subclause 9.2.3.2**   **inopportune**   **optional**
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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) state, if more than one charging unit is available, 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) State, if more than one charging unit is available, 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) state, if more than one charging unit is used and not all are
available, 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   **subclause 9.2.3.2**   **inopportune**   **optional**
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   **subclause 9.2.3.2**   **inopportune**   **optional**
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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) State, if more than one charging unit is available, 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   **subclause 9.2.3.2**   **inopportune**   **optional**
Ensure that the IUT in Active Call (U10) 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 **subclause 9.2.3.2** **inopportune** **optional**
Ensure that the IUT in Active Call (U10) 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 **subclause 9.2.3.2** **inopportune** **optional**
Ensure that the IUT in Active Call (U10) State, if more than one charging unit is available, 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 enters state U00.
> **Selection:** AOC-E supported. PICS: MC 3.

AOC_U10_040 **subclause 9.2.3.2** **inopportune** **optional**
Ensure that the IUT in Active Call (U10) 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 **subclause 9.2.3.2** **inopportune** **optional**
Ensure that the IUT in Active Call (U10) 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 **subclause 9.2.3.2** **inopportune** **optional**
Ensure that the IUT in Active Call (U10) State, if more than one charging unit is used and not all types are available, 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.

7 Compliance

An ATS which complies with this TSS&TP specification shall:

a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 6;
b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;
c) use the same naming conventions for the test groups and test cases;
d) maintain the relationship specified in clause 6 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 6 shall be included in a compliant ATS.

8 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 ETS 300 182-1 [1].

History

Document history			
October 1995	Public Enquiry	PE 94:	1995-10-23 to 1996-02-16
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