ETSI

EUROPEAN
TELECOMMUNICATION
STANDARD

Integrated Services Digital Network (ISDN);
Generic functional protocol for the support of supplementary services;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS is part 5 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) generic functional protocol for the support of supplementary services, 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".

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

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1   Scope

This fifth part of ETS 300 196 specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Network 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 generic functional protocol for the support of supplementary services for the pan-European Integrated Services Digital Network (ISDN) by means of Digital Subscriber Signalling System No. one (DSS1) protocol.

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial PIXIT proforma based on this ETS. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to ETS 300 196-1 [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 300 196-1: "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".

   NOTE: ETS 300 196-1 (1993) was initially published as ETS 300 196 (1993).

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

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

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

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

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

[11]   I-ETS 300 316: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for signalling network layer protocol for circuit-mode basic call control (basic access, network)".

[12]   CCITT Recommendation X.209 (1988): "Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)".

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].

active test: A test case where the IUT is required to send a particular message, but not in reaction to a received message. This would usually involve the use of PIXIT information to see how this message can be generated and quite often is specified in an ATS using an Implicit Send event.

implementation under test: 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].

passive test: A test case where the IUT is required to respond to a protocol event (e.g. received message) with another protocol event (sends message) and normally does not require an any special operator intervention such as is associated with the Implicit Send event.

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 300 196-1

call held auxiliary state: See ETS 300 196-1 [1], subclause 7.1.2.

call reference: See ETS 300 102-1 [7], subclause 4.3.

called user: The user at the origination side of the call.

calling user: The user at the destination side of the call.

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

hold requested auxiliary state: See ETS 300 196-1 [1], subclause 7.1.2.

idle auxiliary state: See ETS 300 196-1 [1], subclause 7.1.2.

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

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [9].

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

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

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

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

retrieve requested auxiliary state: See ETS 300 196-1 [1], subclause 7.1.2.

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

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

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

supplementary service: See ITU-T Recommendation I.210 [10], subclause 2.4.

4 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CR	Call Reference
GFP	Generic Functional Protocol
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
N00	Null Call state
N03	Outgoing Call Proceeding Call state
N04	Call Delivered Call state
N07	Call Received Call state
N08	Connect Request Call state
N09	Incoming Call Proceeding Call state
N10	Active Call state
N12	Disconnect Indication Call state
N19	Release Request Call state
N25	Overlap Receiving Call state
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure

5 General Test Suite Structure (TSS)

Generic Functional Protocol - Network

Clauses 1-6   Clause 7   Clause 8   Clause 9   Clause 10   Clause 11   Annex D
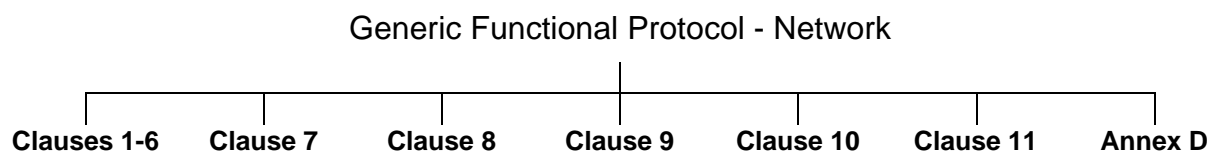
Figure 1: Test suite structure

More detailed TSS for each group (branch) are contained in separate subclauses.

6 TSS&TP

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

The 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 side (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:	**<standard>_<iut><clause>_<group>_<nnn>**	
<standard>=	abbreviation for standard:	e.g. "GFP_"
<iut> =	type of IUT:	U User side N Network side.
<clause>	clause:	1 or 2 character field representing clause from protocol standard
<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 300 196-1 [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 for Generic functional protocol

TP Part	Text	Example
Header	**<Identifier>** *tab* **<paragraph number in base ETS>** *tab* **<PICS reference>** *tab* **<condition>** *CR*.	see table 1 **subclause 0.0.0** **XY 0.0** **mandatory, optional,** **conditional**
Stimulus	Ensure that the IUT in the <basic call state> <trigger> *see below for message structure* *or* <goal>	N00, N10, etc. receiving a XXXX message to request a ....
Reaction	<action> <conditions> *if the action is sending* *see below for message structure* <next action>, *etc.* and enters <supplementary service state> *and/or* and remains in the same state(s) *or* and enters state <state> with CR<number(s)>	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 contained no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and PICS. The criteria applied included 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.

6.1.5 Test of call states

Many TPs include a reference to the IUT's final call state after the realization of the TP. In these cases the TP includes the requirement to ensure that the IUT has entered this particular final call state. Ensuring that the IUT is in a particular call state shall be realized by following the procedures described in subclause 5.8.10 of ETS 300 102-1 [7]. According to these procedures, the IUT on receipt of a STATUS ENQUIRY message, shall respond with a STATUS message indicating, in the third octet of the Call state information element, the current call state of the IUT. This exchange of messages is not mentioned explicitly in each TP but is considered to be implicit in the reference to the final call state. This way of phrasing the TPs has been used to avoid over-complicating the text and structure of the TPs and to improve the readability.

6.2 Network TSS&TP for the generic functional protocol

6.2.1 TSS&TP for clauses 1 to 6

None identified.

6.2.2 TSS&TP for clause 7

6.2.2.1 TSS for clause 7
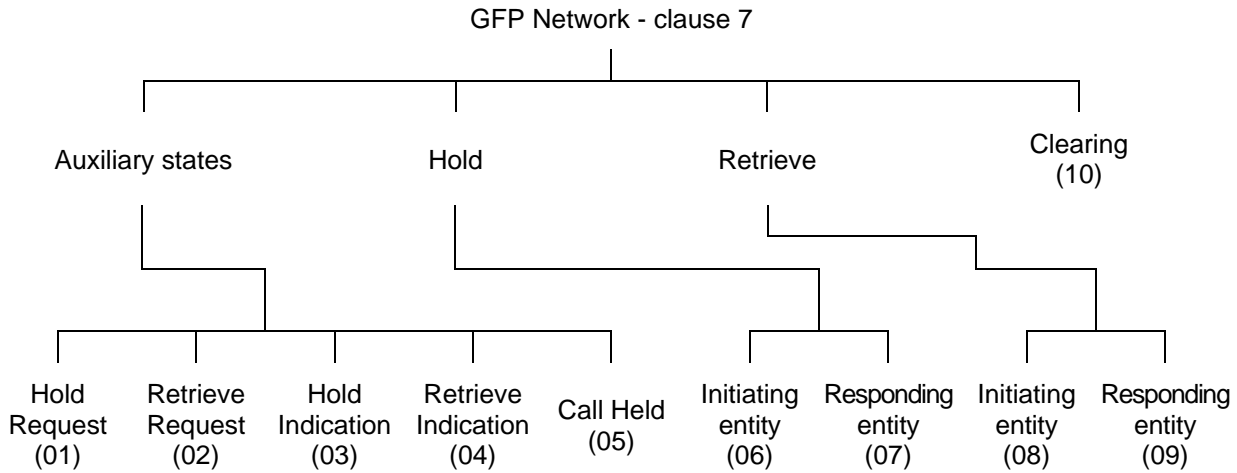
Figure 2: TSS

6.2.2.2 TPs for clause 7

> **Selection:** IUT supports the functional protocol for the control of supplementary services. PICS: MCn 1.

6.2.2.2.1 Auxiliary states

6.2.2.2.1.1 Hold Request

> **Selection:** IUT supports the functions of an initiating entity. PICS: R 5.1.

GFP_N7_01_01 subclause 7.1.2, 3rd paragraph inopportune symmetrical
Ensure that IUT, while in the Active call state N10 and Hold Request auxiliary state, entering the Null call state N00,
    enters the Idle auxiliary state.

GFP_N7_01_02 subclause 7.1.2, 3rd paragraph inopportune symmetrical
Ensure that IUT, while in the Active call state N10 and Hold Request auxiliary state, entering the Disconnect Request call state N11,
    enters the Idle auxiliary state.

GFP_N7_01_03 subclause 7.1.2, 3rd paragraph inopportune
Ensure that if the network, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state, enters the Release Request call state N19,
    enters the Idle auxiliary state.

GFP_N7_01_04 subclause 7.1.2, 4th paragraph inopportune symmetrical
Ensure that IUT, while in the Active call state N10 and Hold Request auxiliary state, entering the Disconnect Indication call state N12,
    enters the Idle auxiliary state.

6.2.2.2.1.2   Retrieve Request

Selection: IUT supports the functions of an initiating entity. PICS: R 5.1.

GFP_N7_02_01   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Retrieve Request auxiliary state, entering the Null call state N00,
        enters the Idle auxiliary state.

GFP_N7_02_02   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Retrieve Request auxiliary state, entering the Disconnect Request call state N11,
        enters the Idle auxiliary state.

GFP_N7_02_03   **subclause 7.1.2, 3rd paragraph**   **inopportune**
Ensure that if the network, while in the Outgoing Call Proceeding call state N03 and Retrieve Request auxiliary state, enters the Release Request call state N19,
        enters the Idle auxiliary state.

GFP_N7_02_04   **subclause 7.1.2, 4th paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Retrieve Request auxiliary state, entering the Disconnect Indication call state N12,
        it remains in the same auxiliary state.

6.2.2.2.1.3   Hold Indication

Selection: IUT supports the functions of an responding entity. PICS: R 5.2.

GFP_N7_03_01   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Hold Indication auxiliary state, entering the Null call state N00,
        enters the Idle auxiliary state.

GFP_N7_03_02   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Hold Indication auxiliary state, entering the Disconnect Request call state N11,
        enters the Idle auxiliary state.

GFP_N7_03_03   **subclause 7.1.2, 3rd paragraph**   **inopportune**
Ensure that if the network, while in the Outgoing Call Proceeding call state N03 and Hold Indication auxiliary state, enters the Release Request call state N19,
        enters the Idle auxiliary state.

GFP_N7_03_04   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Hold Indication auxiliary state, entering the Disconnect Indication call state N12,
        enters the Idle auxiliary state.

6.2.2.2.1.4   Retrieve Indication

Selection: IUT supports the functions of an responding entity. PICS: R 5.2.

GFP_N7_04_01   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Retrieve Indication auxiliary state, entering the Null call state N00,
        enters the Idle auxiliary state.

GFP_N7_04_02   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Retrieve Indication auxiliary state, entering the Disconnect Request call state N11,
        enters the Idle auxiliary state.

GFP_N7_04_03   **subclause 7.1.2, 3rd paragraph**   **inopportune**
Ensure that if the network, while in the Outgoing Call Proceeding call state N03 and Retrieve Indication auxiliary state, enters the Release Request call state N19,
    enters the Idle auxiliary state.

GFP_N7_04_04   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Retrieve Indication auxiliary state, entering the Disconnect Indication call state N12,
    it remains in the same auxiliary state.

6.2.2.2.1.5   Call Held

GFP_N7_05_01   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Call Held auxiliary state, entering the Null call state N00,
    enters the Idle auxiliary state.

GFP_N7_05_02   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Call Held auxiliary state, entering the Disconnect Request call state N11,
    enters the Idle auxiliary state.

GFP_N7_05_03   **subclause 7.1.2, 3rd paragraph**   **inopportune**
Ensure that if the network, while in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state, enters the Release Request call state N19,
    enters the Idle auxiliary state.

GFP_N7_05_04   **subclause 7.1.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that IUT, while in the Active call state N10 and Call Held auxiliary state, entering the Disconnect Indication call state N12,
    it remains in the same auxiliary state.

6.2.2.2.2   Hold function

6.2.2.2.2.1   Initiating entity

    Selection: IUT supports the functions of an initiating entity. PICS: R 5.1.

GFP_N7_06_01   **subclause 7.2.1.1**   **valid   symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state,
    is able to transmit a HOLD message and enters the Hold Request auxiliary state.

GFP_N7_06_02   **subclause 7.2.1.1**   **valid   symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state,
    is able to transmit a HOLD message and enters the Hold Request auxiliary state.

GFP_N7_06_03   **subclause 7.2.1.1**   **valid   symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Idle auxiliary state,
    is able to transmit a HOLD message and enters the Hold Request auxiliary state.
    Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_06_04   **subclause 7.2.1.1**   **valid   symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Idle auxiliary state,
    is able to transmit a HOLD message and enters the Hold Request auxiliary state.
    Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_06_05   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Idle auxiliary state,
    is able to transmit a HOLD message and enters the Hold Request auxiliary state.
        Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_06_06   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state,
    is able to transmit a HOLD message and enters the Hold Request auxiliary state.

GFP_N7_06_07   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary
state, on receipt of a HOLD ACKNOWLEDGE message,
    enters the Call Held auxiliary state.

GFP_N7_06_08   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state, on receipt
of a HOLD ACKNOWLEDGE message,
    enters the Call Held auxiliary state.

GFP_N7_06_09   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Hold Request auxiliary state, on receipt
of a HOLD ACKNOWLEDGE message,
    enters the Call Held auxiliary state.
        Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_06_010   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Hold Request auxiliary state, on
receipt of a HOLD ACKNOWLEDGE message,
    enters the Call Held auxiliary state.
        Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_06_011   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Hold Request auxiliary
state, on receipt of a HOLD ACKNOWLEDGE message,
    enters the Call Held auxiliary state.
        Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_06_012   **subclause 7.2.1.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state, on receipt of a
HOLD ACKNOWLEDGE message,
    enters the Call Held auxiliary state.

GFP_N7_06_013   **subclause 7.2.1.2**   **valid**   **symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary
state, on receipt of a HOLD REJECT message,
    enters the Idle auxiliary state.

GFP_N7_06_014   **subclause 7.2.1.2**   **valid**   **symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state, on receipt
of a HOLD REJECT message,
    enters the Idle auxiliary state.

GFP_N7_06_015 subclause 7.2.1.2 valid symmetrical
Ensure that the IUT, while in the Call Received call state N07 and Hold Request auxiliary state, on receipt
of a HOLD REJECT message,
 enters the Idle auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
   supports primary rate access.

GFP_N7_06_016 subclause 7.2.1.2 valid symmetrical
Ensure that the IUT, while in the Connect Request call state N08 and Hold Request auxiliary state, on
receipt of a HOLD REJECT message,
 enters the Idle auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
   supports primary rate access.

GFP_N7_06_017 subclause 7.2.1.2 valid symmetrical
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Hold Request auxiliary
state, on receipt of a HOLD REJECT message,
 enters the Idle auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
   supports primary rate access.

GFP_N7_06_018 subclause 7.2.1.2 valid symmetrical
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state, on receipt of a
HOLD REJECT message,
 enters the Idle auxiliary state.

6.2.2.2.2.2 Responding entity

  Selection: IUT supports the functions of an responding entity. PICS: R 5.2.

GFP_N7_07_01 subclause 7.2.2.1 valid symmetrical
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state, on
receipt of a HOLD message,
 sends a HOLD ACKNOWLEDGE message and enters the Call Held auxiliary state.

GFP_N7_07_02 subclause 7.2.2.1 valid symmetrical
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state, on receipt of a
HOLD message,
 sends a HOLD ACKNOWLEDGE message and enters the Call Held auxiliary state.

GFP_N7_07_03 subclause 7.2.2.1 valid symmetrical
Ensure that the IUT, while in the Call Received call state N07 and Idle auxiliary state, on receipt of a
HOLD message,
 sends a HOLD ACKNOWLEDGE message and enters the Call Held auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
   supports primary rate access.

GFP_N7_07_04 subclause 7.2.2.1 valid symmetrical
Ensure that the IUT, while in the Connect Request call state N08 and Idle auxiliary state, on receipt of a
HOLD message,
 sends a HOLD ACKNOWLEDGE message and enters the Call Held auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
   supports primary rate access.

GFP_N7_07_05 subclause 7.2.2.1 valid symmetrical
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Idle auxiliary state, on
receipt of a HOLD message,
 sends a HOLD ACKNOWLEDGE message and enters the Call Held auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
   supports primary rate access.

GFP_N7_07_06   **subclause 7.2.2.1**   **valid**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state, on receipt of a HOLD message,
> sends a HOLD ACKNOWLEDGE message and enters the Call Held auxiliary state.

GFP_N7_07_07   **subclause 7.2.2.1**   **inopportune**
Ensure that the IUT, in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state, on receipt of a HOLD message,
> ignores it and remains in the Hold Request auxiliary state.

GFP_N7_07_08   **subclause 7.2.2.1**   **inopportune**
Ensure that the IUT, in the Call Delivered call state N04 and Hold Request auxiliary state, on receipt of a HOLD message,
> ignores it and remains in the Hold Request auxiliary state.

GFP_N7_07_09   **subclause 7.2.2.1**   **inopportune**
Ensure that the IUT, in the Call Received call state N07 and Hold Request auxiliary state, on receipt of a HOLD message,
> ignores it and remains in the Hold Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_07_010   **subclause 7.2.2.1**   **inopportune**
Ensure that the IUT, in the Connect Request call state N08 and Hold Request auxiliary state, on receipt of a HOLD message,
> ignores it and remains in the Hold Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_07_011   **subclause 7.2.2.1**   **inopportune**
Ensure that the IUT, in the Incoming Call Proceeding call state N09 and Hold Request auxiliary state, on receipt of a HOLD message,
> ignores it and remains in the Hold Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_07_012   **subclause 7.2.2.1**   **inopportune**
Ensure that the IUT, in the Active call state N10 and Hold Request auxiliary state, on receipt of a HOLD message,
> ignores it and remains in the Hold Request auxiliary state.

GFP_N7_07_013   **subclause 7.2.2.2, 1st paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Hold Indication auxiliary state, on receipt of a HOLD message,
> sends a HOLD REJECT message with cause #101 and remains in the Hold Indication auxiliary state.

GFP_N7_07_014   **subclause 7.2.2.2, 1st paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state, on receipt of a HOLD message,
> sends a HOLD REJECT message with cause #101 and remains in the Hold Indication auxiliary state.

GFP_N7_07_015   **subclause 7.2.2.2, 1st paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Retrieve Indication auxiliary state, on receipt of a HOLD message,
> sends a HOLD REJECT message with cause #101 and remains in the Hold Indication auxiliary state.

GFP_N7_07_016   **subclause 7.2.2.2, 1st paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Active call state N10 and Retrieve Request auxiliary state, on receipt of a
HOLD message,
>   sends a HOLD REJECT message with cause #101 and remains in the Hold Indication auxiliary
>   state.

GFP_N7_07_017   **subclause 7.2.2.2, 2nd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Null call state N00 and Idle auxiliary state, on receipt of a HOLD
message,
>   sends a HOLD REJECT message with cause #101 and remains in the Idle auxiliary state.

GFP_N7_07_018   **subclause 7.2.2.2, 2nd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Call Initiated call state N01 and Idle auxiliary state, on receipt of a HOLD
message,
>   sends a HOLD REJECT message with cause #101 and remains in the Idle auxiliary state.

GFP_N7_07_019   **subclause 7.2.2.2, 2nd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state, on receipt of a
HOLD message,
>   sends a HOLD REJECT message with cause #101 and remains in the Idle auxiliary state.

GFP_N7_07_020   **subclause 7.2.2.2, 2nd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Disconnect Request call state N11 and Idle auxiliary state, on receipt of a
HOLD message,
>   sends a HOLD REJECT message with cause #101 and remains in the Idle auxiliary state.

GFP_N7_07_021   **subclause 7.2.2.2, 2nd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Overlap Receiving call state N25 and Idle auxiliary state, on receipt of a
HOLD message,
>   sends a HOLD REJECT message with cause #101 and remains in the Idle auxiliary state.

GFP_N7_07_022   **subclause 7.2.2.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Disconnect Indication call state N12 and Idle auxiliary state, on receipt of
a HOLD message,
>   ignores it and remains in the Idle auxiliary state.

GFP_N7_07_023   **subclause 7.2.2.2, 3rd paragraph**   **inopportune   symmetrical**
Ensure that the IUT, while in the Release Request call state N19 and Idle auxiliary state, on receipt of a
HOLD message,
>   ignores it and remains in the Idle auxiliary state.

GFP_N7_07_024   **subclause 7.2.2.2, 4th paragraph**   **invalid   symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state, on
receipt of a HOLD message,
>   sends a HOLD REJECT message with an appropriate cause value, if the Hold function is not
>   permitted, and remains in the Idle auxiliary state.

GFP_N7_07_025   **subclause 7.2.2.2, 4th paragraph**   **invalid   symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state, on receipt of a
HOLD message,
>   sends a HOLD REJECT message with an appropriate cause value, if the Hold function is not
>   permitted, and remains in the Idle auxiliary state.

GFP_N7_07_026   **subclause 7.2.2.2, 4th paragraph**   **invalid   symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Idle auxiliary state, on receipt of a
HOLD message,
>   sends a HOLD REJECT message with an appropriate cause value, if the Hold function is not
>   permitted, and remains in the Idle auxiliary state.
>   **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
>   supports primary rate access.

GFP_N7_07_027   **subclause 7.2.2.2, 4th paragraph**   **invalid**   **symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Idle auxiliary state, on receipt of a HOLD message,
> sends a HOLD REJECT message with an appropriate cause value, if the Hold function is not permitted, and remains in the Idle auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_07_028   **subclause 7.2.2.2, 4th paragraph**   **invalid**   **symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Idle auxiliary state, on receipt of a HOLD message,
> sends a HOLD REJECT message with an appropriate cause value, if the Hold function is not permitted, and remains in the Idle auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_07_029   **subclause 7.2.2.2, 4th paragraph**   **invalid**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state, on receipt of a HOLD message,
> sends a HOLD REJECT message with an appropriate cause value, if the Hold function is not permitted, and remains in the Idle auxiliary state.

6.2.2.2.3 Retrieve function

6.2.2.2.3.1 Initiating entity

> **Selection:** IUT supports the functions of an initiating entity. PICS: R 5.1.

GFP_N7_08_01   **subclause 7.4.1.1, 1st paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state,
> is able to transmit a RETRIEVE message and enters the Retrieve Request auxiliary state.

GFP_N7_08_02   **subclause 7.4.1.1, 1st paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state,
> is able to transmit a RETRIEVE message and enters the Retrieve Request auxiliary state.

GFP_N7_08_03   **subclause 7.4.1.1, 1st paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state,
> is able to transmit a RETRIEVE message and enters the Retrieve Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_08_04   **subclause 7.4.1.1, 1st paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state,
> is able to transmit a RETRIEVE message and enters the Retrieve Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_08_05   **subclause 7.4.1.1, 1st paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state,
> is able to transmit a RETRIEVE message and enters the Retrieve Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_08_06   **subclause 7.4.1.1, 1st paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state,
> is able to transmit a RETRIEVE message and enters the Retrieve Request auxiliary state.

GFP_N7_08_07   **subclause 7.4.1.1, 5th paragraph**   **valid**   **symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Retrieve Request auxiliary state,
> is able to accept a RETRIEVE ACKNOWLEDGE message and enter the Idle auxiliary state.

GFP_N7_08_08   subclause 7.4.1.1, 5th paragraph   valid   symmetrical
Ensure that the IUT, while in the Call Delivered call state N04 and Retrieve Request auxiliary state,
　　　is able to accept a RETRIEVE ACKNOWLEDGE message and enter the Idle auxiliary state.

GFP_N7_08_09   subclause 7.4.1.1, 5th paragraph   valid   symmetrical
Ensure that the IUT, while in the Call Received call state N07 and Retrieve Request auxiliary state,
　　　is able to accept a RETRIEVE ACKNOWLEDGE message and enter the Idle auxiliary state.
　　Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
　　　　　supports primary rate access.

GFP_N7_08_010   subclause 7.4.1.1, 5th paragraph   valid   symmetrical
Ensure that the IUT, while in the Connect Request call state N08 and Retrieve Request auxiliary state,
　　　is able to accept a RETRIEVE ACKNOWLEDGE message and enter the Idle auxiliary state.
　　Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
　　　　　supports primary rate access.

GFP_N7_08_011   subclause 7.4.1.1, 5th paragraph   valid   symmetrical
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Retrieve Request auxiliary
state,
　　　is able to accept a RETRIEVE ACKNOWLEDGE message and enter the Idle auxiliary state.
　　Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
　　　　　supports primary rate access.

GFP_N7_08_012   subclause 7.4.1.1, 5th paragraph   valid   symmetrical
Ensure that the IUT, while in the Active call state N10 and Retrieve Request auxiliary state,
　　　is able to accept a RETRIEVE ACKNOWLEDGE message and enter the Idle auxiliary state.

GFP_N7_08_013   subclause 7.4.1.2   invalid   symmetrical
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Retrieve Request auxiliary
state, on receipt of a RETRIEVE REJECT message
　　　enters the Call Held auxiliary state.

GFP_N7_08_014   subclause 7.4.1.2   invalid   symmetrical
Ensure that the IUT, while in the Call Delivered call state N04 and Retrieve Request auxiliary state, on
receipt of a RETRIEVE REJECT message
　　　enters the Call Held auxiliary state.

GFP_N7_08_015   subclause 7.4.1.2   invalid   symmetrical
Ensure that the IUT, while in the Call Received call state N07 and Retrieve Request auxiliary state, on
receipt of a RETRIEVE REJECT message
　　　enters the Call Held auxiliary state.
　　Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
　　　　　supports primary rate access.

GFP_N7_08_016   subclause 7.4.1.2   invalid   symmetrical
Ensure that the IUT, while in the Connect Request call state N08 and Retrieve Request auxiliary state, on
receipt of a RETRIEVE REJECT message
　　　enters the Call Held auxiliary state.
　　Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
　　　　　supports primary rate access.

6.2.2.2.3.2   Responding entity

　　Selection: IUT supports the functions of an responding entity. PICS: R 5.2.

GFP_N7_09_01   subclause 7.4.1.2   invalid   symmetrical
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Retrieve Request auxiliary
state, on receipt of a RETRIEVE REJECT message
　　　enters the Call Held auxiliary state.
　　Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
　　　　　supports primary rate access.

GFP_N7_09_02   **subclause 7.4.1.2**   **invalid**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Retrieve Request auxiliary state, on receipt of a
RETRIEVE REJECT message
    enters the Call Held auxiliary state.

GFP_N7_09_03   **subclause 7.4.2.1**   **valid**   **symmetrical**
Ensure that the IUT while, in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state, on
receipt of a RETRIEVE message,
    sends a RETRIEVE ACKNOWLEDGE message and enters the Idle auxiliary state.

GFP_N7_09_04   **subclause 7.4.2.1**   **valid**   **symmetrical**
Ensure that the IUT while, in the Call Delivered call state N04 and Call Held auxiliary state, on receipt of a
RETRIEVE message,
    sends a RETRIEVE ACKNOWLEDGE message and enters the Idle auxiliary state.

GFP_N7_09_05   **subclause 7.4.2.1**   **valid**   **symmetrical**
Ensure that the IUT while, in the Call Received call state N07 and Call Held auxiliary state, on receipt of a
RETRIEVE message,
    sends a RETRIEVE ACKNOWLEDGE message and enters the Idle auxiliary state.
    Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_09_06   **subclause 7.4.2.1**   **valid**   **symmetrical**
Ensure that the IUT while, in the Connect Request call state N08 and Call Held auxiliary state, on receipt
of a RETRIEVE message,
    sends a RETRIEVE ACKNOWLEDGE message and enters the Idle auxiliary state.
    Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_09_07   **subclause 7.4.2.1**   **valid**   **symmetrical**
Ensure that the IUT while, in the Incoming Call Proceeding call state N09 and Call Held auxiliary state, on
receipt of a RETRIEVE message,
    sends a RETRIEVE ACKNOWLEDGE message and enters the Idle auxiliary state.
    Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_09_08   **subclause 7.4.2.1**   **valid**   **symmetrical**
Ensure that the IUT while, in the Active call state N10 and Call Held auxiliary state, on receipt of a
RETRIEVE message,
    sends a RETRIEVE ACKNOWLEDGE message and enters the Idle auxiliary state.

GFP_N7_09_09   **subclause 7.4.2.1**   **inopportune**
Ensure that the IUT, in the Outgoing Call Proceeding call state N03 and Retrieve Request auxiliary state
on receipt of a RETRIEVE message,
    ignores the message and remains in the Retrieve Request auxiliary state.

GFP_N7_09_010   **subclause 7.4.2.1**   **inopportune**
Ensure that the IUT, in the Call Delivered call state N04 and Retrieve Request auxiliary state on receipt of
a RETRIEVE message,
    ignores the message and remains in the Retrieve Request auxiliary state.

GFP_N7_09_011   **subclause 7.4.2.1**   **inopportune**
Ensure that the IUT, in the Call Received call state N07 and Retrieve Request auxiliary state on receipt of
a RETRIEVE message,
    ignores the message and remains in the Retrieve Request auxiliary state.
    Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT
                supports primary rate access.

GFP_N7_09_012 subclause 7.4.2.1 inopportune
Ensure that the IUT, in the Connect Request call state N08 and Retrieve Request auxiliary state on receipt of a RETRIEVE message,
> ignores the message and remains in the Retrieve Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_013 subclause 7.4.2.1 inopportune
Ensure that the IUT, in the Incoming Call Proceeding call state N09 and Retrieve Request auxiliary state on receipt of a RETRIEVE message,
> ignores the message and remains in the Retrieve Request auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_014 subclause 7.4.2.1 inopportune
Ensure that the IUT, in the Active call state N10 and Retrieve Request auxiliary state on receipt of a RETRIEVE message,
> ignores the message and remains in the Retrieve Request auxiliary state.

GFP_N7_09_015 subclause 7.4.2.2, 1st paragraph inopportune symmetrical
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the same auxiliary state.

GFP_N7_09_016 subclause 7.4.2.2, 1st paragraph inopportune symmetrical
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the same auxiliary state.

GFP_N7_09_017 subclause 7.4.2.2, 1st paragraph inopportune symmetrical
Ensure that the IUT, while in the Active call state N10 and Hold Indication auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the same auxiliary state.

GFP_N7_09_018 subclause 7.4.2.2, 1st paragraph inopportune symmetrical
Ensure that the IUT, while in the Active call state N10 and Retrieve Indication auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the same auxiliary state.

GFP_N7_09_019 subclause 7.4.2.2, 2nd paragraph inopportune symmetrical
Ensure that the IUT, while in the Null call state N00 and Call Held auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the Call Held auxiliary state.

GFP_N7_09_020 subclause 7.4.2.2, 2nd paragraph inopportune symmetrical
Ensure that the IUT, while in the Call Initiated call state N01 and Call Held auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the Call Held auxiliary state.

GFP_N7_09_021 subclause 7.4.2.2, 2nd paragraph inopportune symmetrical
Ensure that the IUT, while in the Overlap Sending call state N02 and Call Held auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the Call Held auxiliary state.

GFP_N7_09_022 subclause 7.4.2.2, 2nd paragraph inopportune symmetrical
Ensure that the IUT, while in the Disconnect Request call state N11 and Call Held auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the Call Held auxiliary state.

GFP_N7_09_023   **subclause 7.4.2.2, 2nd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Disconnect Indication call state N12 and Call Held auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the Call Held auxiliary state.

GFP_N7_09_024   **subclause 7.4.2.2, 2nd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Overlap Receiving call state N25 and Call Held auxiliary state, on receipt of a RETRIEVE message,
> sends a RETRIEVE REJECT message with cause #101 and remains in the Call Held auxiliary state.

GFP_N7_09_025   **subclause 7.4.2.2, 3rd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "B1 channel exclusive" where B1 is not available,
> sends a RETRIEVE REJECT message with cause #44 and remains in the Call Held auxiliary state.

GFP_N7_09_026   **subclause 7.4.2.2, 3rd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "B1 channel exclusive" where B1 is not available,
> sends a RETRIEVE REJECT message with cause #44 and remains in the Call Held auxiliary state.

GFP_N7_09_027   **subclause 7.4.2.2, 3rd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "B1 channel exclusive" where B1 is not available,
> sends a RETRIEVE REJECT message with cause #44 and remains in the Call Held auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_028   **subclause 7.4.2.2, 3rd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "B1 channel exclusive" where B1 is not available,
> sends a RETRIEVE REJECT message with cause #44 and remains in the Call Held auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_029   **subclause 7.4.2.2, 3rd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "B1 channel exclusive" where B1 is not available,
> sends a RETRIEVE REJECT message with cause #44 and remains in the Call Held auxiliary state.
> **Selection:** IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_030   **subclause 7.4.2.2, 3rd paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "B1 channel exclusive" where B1 is not available,
> sends a RETRIEVE REJECT message with cause #44 and remains in the Call Held auxiliary state.

GFP_N7_09_031   **subclause 7.4.2.2, 4th paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "any channel" where no channel is available,
> sends a RETRIEVE REJECT message with cause #34 and remains in the Call Held auxiliary state.

GFP_N7_09_032   **subclause 7.4.2.2, 4th paragraph**   **inopportune**   **symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "any channel" where no channel is available,
> sends a RETRIEVE REJECT message with cause #34 and remains in the Call Held auxiliary state.

GFP_N7_09_033   **subclause 7.4.2.2, 4th paragraph**   **inopportune symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "any channel" where no channel is available,
     sends a RETRIEVE REJECT message with cause #34 and remains in the Call Held auxiliary state.
     Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_034   **subclause 7.4.2.2, 4th paragraph**   **inopportune symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "any channel" where no channel is available,
     sends a RETRIEVE REJECT message with cause #34 and remains in the Call Held auxiliary state.
     Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_035   **subclause 7.4.2.2, 4th paragraph**   **inopportune symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "any channel" where no channel is available,
     sends a RETRIEVE REJECT message with cause #34 and remains in the Call Held auxiliary state.
     Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_036   **subclause 7.4.2.2, 4th paragraph**   **inopportune symmetrical**
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state on receipt of a RETRIEVE message indicating "any channel" where no channel is available,
     sends a RETRIEVE REJECT message with cause #34 and remains in the Call Held auxiliary state.

GFP_N7_09_037   **subclause 7.4.2.2, 5th paragraph**   **invalid symmetrical**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state, on receipt of a RETRIEVE message,
     sends a RETRIEVE REJECT message with an appropriate cause value, if the Retrieve function is not permitted, and remains in the Call Held auxiliary state.

GFP_N7_09_038   **subclause 7.4.2.2, 5th paragraph**   **invalid symmetrical**
Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state, on receipt of a RETRIEVE message,
     sends a RETRIEVE REJECT message with an appropriate cause value, if the Retrieve function is not permitted, and remains in the Call Held auxiliary state.

GFP_N7_09_039   **subclause 7.4.2.2, 5th paragraph**   **invalid symmetrical**
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state, on receipt of a RETRIEVE message,
     sends a RETRIEVE REJECT message with an appropriate cause value, if the Retrieve function is not permitted, and remains in the Call Held auxiliary state.
     Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_040   **subclause 7.4.2.2, 5th paragraph**   **invalid symmetrical**
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state, on receipt of a RETRIEVE message,
     sends a RETRIEVE REJECT message with an appropriate cause value, if the Retrieve function is not permitted, and remains in the Call Held auxiliary state.
     Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_041   **subclause 7.4.2.2, 5th paragraph**   **invalid symmetrical**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state, on receipt of a RETRIEVE message,
     sends a RETRIEVE REJECT message with an appropriate cause value, if the Retrieve function is not permitted, and remains in the Call Held auxiliary state.
     Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_09_042 subclause 7.4.2.2, 5th paragraph invalid symmetrical
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state, on receipt of a RETRIEVE message,
  sends a RETRIEVE REJECT message with an appropriate cause value, if the Retrieve function is not permitted, and remains in the Call Held auxiliary state.

6.2.2.2.4 Clearing of a held call

GFP_N7_10_01 subclause 7.6 valid symmetrical
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Call Held auxiliary state, following basic call clearing, on receipt of a RELEASE COMPLETE,
  enters the Idle auxiliary state.

GFP_N7_10_02 subclause 7.6 valid symmetrical
Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state, following basic call clearing, on receipt of a RELEASE COMPLETE,
  enters the Idle auxiliary state.

GFP_N7_10_03 subclause 7.6 valid symmetrical
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state, following basic call clearing, on receipt of a RELEASE COMPLETE,
  enters the Idle auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_10_04 subclause 7.6 valid symmetrical
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state, following basic call clearing, on receipt of a RELEASE COMPLETE,
  enters the Idle auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_10_05 subclause 7.6 valid symmetrical
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state, following basic call clearing, on receipt of a RELEASE COMPLETE,
  enters the Idle auxiliary state.
  Selection: IUT supports basic access, point-to-point configuration? PICS: [11] MC 2.4. OR IUT supports primary rate access.

GFP_N7_10_06 subclause 7.6 valid symmetrical
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state, following basic call clearing, on receipt of a RELEASE COMPLETE,
  enters the Idle auxiliary state.

6.2.3   TSS&TP for clause 8

6.2.3.1   TSS for clause 8

GFP - clause 8

Application of operations
8.2

Transport of components
8.3

Error procedures
8.4
(08)

Invoke
(01)

Return result
(02)

Return
error
(03)

Reject
(04)

Bearer
related
(05)

Bearer
independent

Connection-
oriented
(06)

Connection-
less
(07)
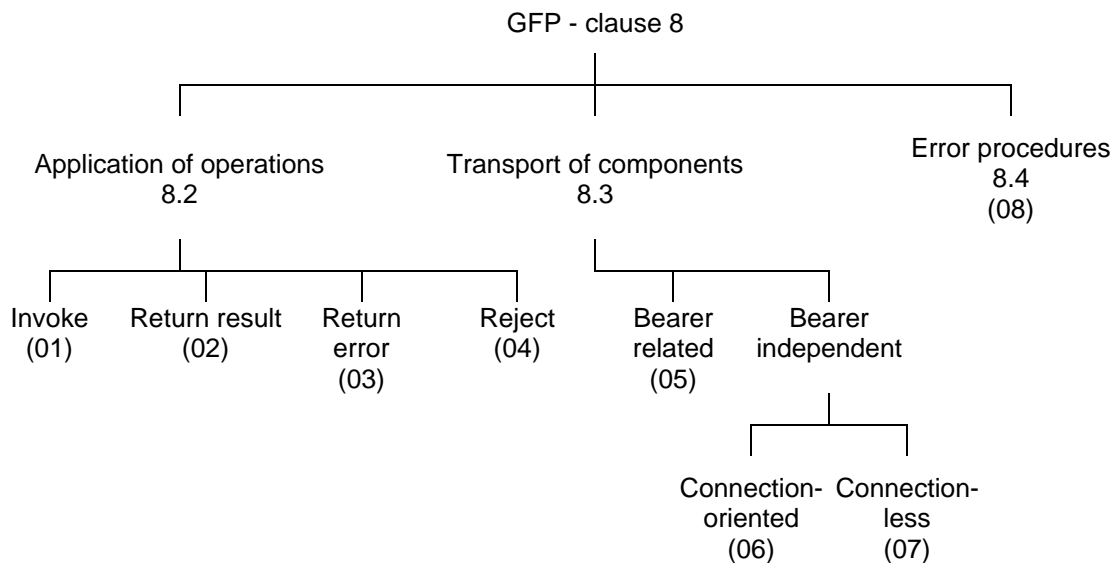
NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 3: TSS

6.2.3.2   TPs for clause 8

> **Selection:** IUT supports the functional protocol for the control of supplementary services. PICS: MCn 2.

6.2.3.2.1   Introduction

How to apply these TPs:

These TPs are generic and so are not useable on their own. They should be parameterized and inserted into the appropriate supplementary service TSS&TP ETS. The following steps should be applied for each supplementary service TSS&TP ETS:

- combine table 1 with TPs from subclause 6.2.3.2.2;

- check supplementary service transport mechanism(s) supported and apply relevant TPs from subclause 6.2.3.2.3;

- apply TP from subclause 6.2.3.2.4.

6.2.3.2.2   Application of operations (subclause 8.2)

**Table 3: Cross reference between transport mechanisms, call states, messages,
call references and data links**

Transport mechanism	<cstate> call state	<PDU> message	<CR> call reference	<transport> data link
Bearer related	<side> 00, 01, 02, 03, 04, 06, 07, 08, 09, 10, 11, 12, 19, 25	call control message FACILITY	CR of an existing call	
Bearer independent Connection oriented point to point	<side> 00, 19, 31	REGISTER FACILITY (call state 31 only) RELEASE RELEASE COMP STATUS (note 1) STATUS ENQ*	CR created	via point to point data link
Bearer independent Connectionless point to point	<side> any state	FACILITY (I-frame)	dummy CR	via point to point data link
Bearer independent Connectionless point to multipoint	<side> any state	FACILITY (UI-frame)	dummy CR	via broadcast data link
NOTE 1: STATUS, STATUS ENQUIRY not used for transportation of components. NOTE 2: <side>=N,U				

6.2.3.2.2.1   Invocation (subclause 8.2.2.1)

Selection: IUT supports use of the invocation procedure. PICS: SCn 2.1

GFP_N8_01_01   subclause 8.2.2.1   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state, to initiate an operation,
    sends a <PDU> message with <CR> containing a Facility information element with a <service>
    <component> invoke component (via <transport>) and enters the <service> <sstate> state.

GFP_N8_01_02   subclause 8.2.2.   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a <PDU>
message with <CR> containing a Facility information element with a <service> <component> invoke
component (via <transport>),
    enters|remains in call state <cstate> and enters the <service> <sstate> state.

6.2.3.2.2.2   Return result (subclause 8.2.2.2)

Selection: IUT supports use of the return result procedure. PICS: SCn 2.2

GFP_N8_02_01   subclause 8.2.2.2   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state, to transfer the result of a
successfully performed operation,
    sends a <PDU> message with <CR> containing a Facility information element with a <service>
    <component> return result component (via <transport>), enters|remains in call state <cstate> and
    enters the <service> <sstate> state.

GFP_N8_02_02   subclause 8.2.2.2   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a <PDU>
message with <CR> containing a Facility information element with a <service> <component> return result
component (via <transport>),
    enters|remains in call state <cstate> and enters the <service> <sstate> state.

6.2.3.2.2.3   Return error (subclause 8.2.2.3)

Selection: IUT supports use of the return error procedure. PICS: SCn 2.3

GFP_N8_03_01   subclause 8.2.2.3   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state, to transfer error information
in the case of an unsuccessfully performed operation,
    sends a <PDU> message with <CR> containing a Facility information element with a <service>
    <component> return error component (via <transport>), enters|remains in call state <cstate> and
    enters the <service> <sstate> state.

GFP_N8_03_02   subclause 8.2.2.3   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a <PDU>
message with <CR> containing a Facility information element with a <service> <component> return error
component (via <transport>),
    enters|remains in call state <cstate> and enters the <service> <sstate> state.

6.2.3.2.2.4   Reject (subclause 8.2.2.4)

Selection: IUT supports use of the reject procedure. PICS: SCn 2.4

GFP_N8_04_01   subclause 8.2.2.4   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a <PDU>
message with <CR> containing a Facility information element with a reject component not including an
invoke identifier (via <transport>),
    enters|remains in call state <cstate> and enters the <service> <sstate> state.

    NOTE 1:   The receipt of a reject component is dealt with according to the procedures defined in
               the individual supplementary service ETSs.

GFP_N8_04_02   subclause 8.2.2.4   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a <PDU>
message with <CR> containing a Facility information element with a reject component including a valid
invoke identifier (via <transport>),
    enters|remains in call state <cstate> and enters the <service> <sstate> state.

GFP_N8_04_03   subclause 8.2.2.4   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state detecting an <error> error
classified as general-problem/<problem code> in a received <PDU> message with <CR> containing a
Facility information element with a <service> <component> component (via <transport>),
    sends a <PDU> message with <CR> containing a Facility information element with a reject
    component indicating general-problem/<problem code> and including an invoke identifier or
    including NULL (via <transport>), enters|remains in call state <cstate> and enters the <service>
    <sstate> state.

    NOTE 2:   For list of problem-codes see table 2 or table D.1 of ETS 300 196-1 [1].

GFP_N8_04_04   subclause 8.2.2.4   symmetrical
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state detecting an <error> error
classified as <problem type>/<problem code> in a received <PDU> message with <CR> containing a
Facility information element with a <service> <component> component (via <transport>),
    sends a <PDU> message with <CR> containing a Facility information element with a reject
    component indicating <problem type>/<problem code> and including a valid invoke identifier (via
    <transport>), enters|remains in call state <cstate> and enters the <service> <sstate> state.

    NOTE 3:   <problem type> = invoke-problem, return-result-problem or return-error-problem. For
               list of problem-codes see table 2 or table D.1 of ETS 300 196-1 [1].

6.2.3.2.3 Transport of components (subclause 8.3)

NOTE: Most TPs of subclause 6.2.3.2.2 also test the procedures of subclause 8.3 of ETS 300 196-1 [1]. Only additional procedures related to subclause 8.3 of ETS 300 196-1 [1], not already covered, are included below.

6.2.3.2.3.1 Bearer related transport (subclause 8.3.1)

Selection: IUT supports the bearer related supplementary services procedure. PICS: MCn 2.1.

GFP_N8_05_01   **subclause 8.3.1.1.2**   **symmetrical**
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state unable to process a <service> <component> invoke component,
    sends a <PDU1> message with <CR> containing a Facility information element with a <service> <component> <answer> component (via <transport>), enters|remains in call state <cstate> and enters the <service> <sstate> state
    or ignores the invocation.

NOTE: <PDU1>   =   DISCONNECT, RELEASE, RELEASE COMPLETE, FACILITY
        <answer> =   return error, reject

6.2.3.2.3.2 Bearer independent transport (subclause 8.3.2)

Selection: IUT supports the bearer independent supplementary services procedure. PICS: MCn 2.2.

6.2.3.2.3.2.1 Connection-oriented (subclause 8.3.2.1)

Selection: IUT supports the point-to-point (bearer independent) connection-oriented transport mechanism. PICS: MCn 2.5.

GFP_N8_06_01   **subclause 8.3.2.1.1.1**   **symmetrical**
Ensure that the IUT, in call state <side>00 in order to establish a connection towards the responder,
    sends a REGISTER message and enters the Bearer independent Transport call state <side>31.

GFP_N8_06_02   **subclause 8.3.2.1.1.2**   **symmetrical**
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a REGISTER message with a call reference in use,
    ignores the message and sends a STATUS message with a Cause information element containing the cause value #101, a Call state information element containing the call state and using the call reference value of the received REGISTER message and remains in the same states.

GFP_N8_06_03   **subclause 8.3.2.1.1.2**   **symmetrical**
Ensure that the IUT, in call state <side>00 and in the <service> <sstate> state receiving a REGISTER message containing a Facility information element with an invalid protocol profile,
    sends a RELEASE COMPLETE message containing cause #100 and using the call reference value of the received REGISTER message.

GFP_N8_06_04   **subclause 8.3.2.1.1.1 & subclause [7] 5.8.3.2 d**   **symmetrical**
Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a REGISTER message with a call reference not recognised as relating to a call and with the call reference flag set to "1",
    ignores the message.

GFP_N8_06_05   **subclause 8.3.2.1.2.1**   **symmetrical**
Ensure that the IUT, in call state <side>31 and in the <service> <sstate> state to transfer data,
    sends a FACILITY message and remains the same call state and enters the <service> <sstate> state.

GFP_N8_06_06   subclause 8.3.2.1.2.2   **symmetrical**
Ensure that the IUT, in call state <side>31 and in the <service> <sstate> state receiving a message other than FACILITY, RELEASE, RELEASE COMPLETE, STATUS or STATUS ENQUIRY using the call reference assigned by a REGISTER message,
    ignores the message and sends a STATUS message with a Cause information element containing the cause value #101 and a Call state information element containing the call state value 31.

GFP_N8_06_07   subclause 8.3.2.1.2.2   **symmetrical**
Ensure that the IUT, in call state <side>31 and in the <service> <sstate> state receiving a FACILITY message containing a Facility information element with an invalid protocol profile,
    ignores the message and sends a STATUS message with a Cause information element containing the cause value #100.

GFP_N8_06_08   subclause 8.3.2.1.3.1   **symmetrical**
Ensure that the IUT, in call state <side>31 to clear the connection,
    sends a RELEASE message and enters the call state <side> 19.

GFP_N8_06_09   subclause [7] 5.8
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message delivered in a DL-UNIT-DATA-INDICATION,
    sends no message or processes the message as valid.

GFP_N8_06_010   subclause [7] 5.8.3.1
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message using the dummy call reference,
    sends no message.

GFP_N8_06_011   subclause [7] 5.8.3.2 a
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state for CR1, on receipt of a FACILITY message for CR2 which is not recognised as relating to a call,
    sends a STATUS message for CR2 with a Cause information element indicating the cause value 81 "invalid call reference value for CR2 and remains in call state <side>31 and in the <service> <sstate> state for CR1.

GFP_N8_06_012   subclause [7] 5.8.3.2 f
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message using the global call reference,
    sends a STATUS message using the global call reference with a Call state information element indicating the call state associated with the global call reference and a Cause information element indicating the cause value 81 "invalid call reference value.

GFP_N8_06_013   subclause [7] 5.8.4
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of an inopportune message (ALERTING),
    sends either a STATUS message with a Cause information element indicating the cause value 98 "message type not compatible with call state or message type non-existent or not implemented" or 101 "message not compatible with call state" or a STATUS ENQUIRY message.

GFP_N8_06_014   subclause [7] 5.8.8
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a DL-ESTABLISH-INDICATION,
    sends no message.

GFP_N8_06_015   subclause [7] 5.8.11
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a STATUS message with a Call state information element indicating the Null call state,
    sends no message and enters the Null call state N00.

GFP_N8_06_016   subclause [7] 5.8.1
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with an erroneous protocol discriminator, coded other than '08'H,
    sends no message.

GFP_N8_06_017   **subclause [7] 5.8.2**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a message which is too short,
>   sends no message.

GFP_N8_06_018   **subclause [7] 5.8.3.1**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with an invalid call reference format (octet 1, bits 8 - 5 <> '0000'B),
>   sends no message.

GFP_N8_06_019   **subclause [7] 5.8.3.1**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with an invalid call reference format (octet 1, bits 4 - 1, length value too high),
>   sends no message.

GFP_N8_06_020   **subclause [7] 5.8.4**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a message with an unrecognised message type,
>   sends either a STATUS message with a Cause information element indicating the cause value 98 "message type not compatible with call state or message type non-existent or not implemented" or 97 "message type non-existent or not implemented" or a STATUS ENQUIRY message.

GFP_N8_06_021   **subclause [7] 5.8.6.1**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with a mandatory information element missing,
>   sends a STATUS message with a Cause information element indicating the cause value 96 "mandatory information element missing".

GFP_N8_06_022   **subclause [7] 5.8.6.2**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with a mandatory information element content error,
>   sends a STATUS message with a Cause information element indicating the cause value 100 "invalid information element contents".

GFP_N8_06_023   **subclause [7] 5.8.7.1, 5.8.6.1**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with an unrecognised information element (coded comprehension required),
>   sends a STATUS message with a Cause information element indicating the cause value 96 "mandatory information element missing".

GFP_N8_06_024   **subclause [7] 5.8.7.1**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with an unrecognised information element (coded comprehension not required),
>   processes the message as valid and optionally sends a STATUS message with a Cause information element indicating the cause value 99 "information element non-existent or not implemented".

GFP_N8_06_025   **subclause [7] 5.8.7.2**
Ensure that the IUT in call state <side>31 and in the <service> <sstate> state , on receipt of a FACILITY message with a non-mandatory information element content error,
>   processes the message as valid and optionally sends a STATUS message with a Cause information element indicating the cause value 100 "invalid information element contents".

6.2.3.2.3.2.2 Connectionless (subclauses 8.3.2.2 and 8.3.2.4)

Selection: IUT supports the (bearer independent) connectionless transport mechanism. PICS: MCn 2.6 OR MCn 2.7.

GFP_N8_07_01   **subclause 8.3.2**   **valid   network**
Ensure that the IUT, in the <service> <sstate> state, to send a component to control a supplementary service,
  sends a FACILITY message with a dummy call reference containing a Facility information element with a <component> and a Called party number information element.
  Selection: IUT supports MSN supplementary service. PIXIT.

GFP_N8_07_02   **subclause 8.3.2**   **valid   network**
Ensure that the IUT, in the <service> <sstate> state, to send a component to control a supplementary service,
  sends a FACILITY message with a dummy call reference containing a Facility information element with a <component> and a Called party subaddress information element.
  Selection: IUT supports SUB supplementary service. PIXIT.

GFP_N8_07_03   **subclauses 8.3.2.2.2 & 8.3.2.4.2**   **symmetrical**
Ensure that the IUT, in the <service> <sstate> state, receiving a FACILITY message with a dummy call reference containing a Facility information element with an invalid protocol profile,
  ignores the message.

GFP_N8_07_04   **subclauses 8.3.2.2.2 & 8.3.2.4.2**   **symmetrical**
Ensure that the IUT, in the <service> <sstate> state, receiving FACILITY message with a dummy call reference but without a Facility information element,
  ignores the message.

GFP_N8_07_05   **subclauses 8.3.2.2.2 & 8.3.2.4.2**   **symmetrical**
Ensure that the IUT, in the <service> <sstate> 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.

6.2.3.2.4 Error procedures (subclause 8.4)

GFP_N8_08_01   **subclause 8.4.2**   **symmetrical**
Ensure that the IUT, on receipt of an unknown value (data element) in an <element>, and if all values which are neither optional nor have default values assigned are correctly received,
  ignores these unknown values and does not reject these components with problem code of "mistyped <element>".

  NOTE: <element> = argument, result or parameter.

6.2.4 TSS&TP for clause 9

6.2.4.1 TSS for clause 9

GFP - clause 9

Bearer-related notifications
(01)

Bearer-independent notifications
(02)
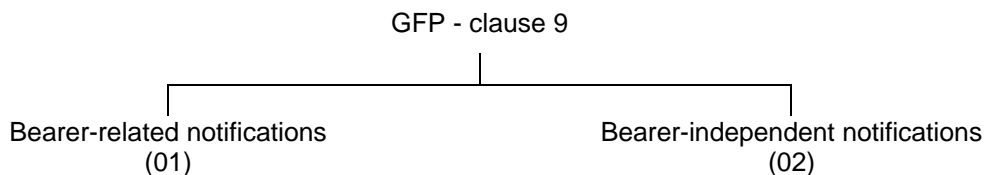
NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 4: Test suite structure

6.2.4.2 TPs for clause 9

Selection: IUT supports notification category procedures? PICS: MCn 3.

6.2.4.2.1 Introduction

How to apply these TPs:

These TPs are generic and so are not useable on their own. They should be parameterized and inserted into the appropriate supplementary service TSS&TP ETSs. Each occurrence of a word enclosed in "<" and ">" should be replaced by the appropriate expression for the applicable supplementary service.

6.2.4.2.2 Bearer-related notifications

Selection: IUT supports the transport of Bearer-related notifications? PICS: MCn 3.1.

GFP_N9_01_001   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, to deliver <service> notification information in the call establishment phase,
    sends a call control message (e.g. SETUP) containing a Notification indicator information element.
    Selection: IUT supports notification indicators. PICS: SCn 3.1.

GFP_N9_01_002   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, to deliver <service> notification information in the call establishment phase,
    sends a call control message (e.g. SETUP) containing a <parameter> information element or a Notification indicator information element including Basic Encoding Rules (BER) encoded information.
    Selection: IUT supports notification parameters. PICS: SCn 3.2.

GFP_N9_01_003   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, to deliver <service> notification information in the call clearing phase,
    sends a call control message (e.g. RELEASE) containing a Notification indicator information element.
    Selection: IUT supports notification indicators. PICS: SCn 3.1.

GFP_N9_01_004   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, to deliver <service> notification information in the call clearing phase,
    sends a call control message (e.g. RELEASE) containing a <parameter> information element or a Notification indicator information element including BER encoded information.
    Selection: IUT supports notification parameters. PICS: SCn 3.2.

GFP_N9_01_005   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, to transfer <service> notification information coinciding with the sending of a FACILITY message,
    sends a FACILITY message containing a Notification indicator information element.
    Selection: IUT supports notification indicators. PICS: SCn 3.1.

GFP_N9_01_006   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, to transfer <service> notification information coinciding with the sending of a FACILITY message,
    sends a FACILITY message containing a <parameter> information element or a Notification indicator information element including BER encoded information.
    Selection: IUT supports notification parameters. PICS: SCn 3.2.

GFP_N9_01_007   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the Active call state U10, to transfer <service> notification information, not coinciding with the sending of a FACILITY message,
    sends a NOTIFY message containing a Notification indicator information element.
    Selection: IUT supports notification indicators. PICS: SCn 3.1.

GFP_N9_01_008   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the Active call state U10, to transfer <service> notification information, not coinciding with the sending of a FACILITY message,
    sends a NOTIFY message containing a <parameter> information element or a Notification indicator information element including BER encoded information.
    Selection: IUT supports notification parameters. PICS: SCn 3.2.

GFP_N9_01_009   **subclause 9.3.1**   **valid**
Ensure that the IUT, in call state N01 (having received a SETUP message), to transfer <service> notification information,
    sends, as its first response, a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or a CONNECT message containing notification information.

GFP_N9_01_010   **subclause 9.3.1**   **valid**
Ensure that the IUT, in call state N06 (having sent a SETUP message), to transfer <service> notification information,
    does not send, before receiving its first response to the SETUP message, a NOTIFY message.

GFP_N9_01_011   **subclause 9.3.1**   **valid**
Ensure that the IUT, in call state N12 (having initiated call clearing), to transfer <service> notification information,
    does not send a NOTIFY message (containing <service> notification information).

GFP_N9_01_012   **subclause 9.3.1**   **valid**
Ensure that the IUT, in call state N11 (having received a DISCONNECT message), to transfer <service> notification information,
    sends a RELEASE or a RELEASE COMPLETE message containing notification information.

GFP_N9_01_013   **subclause 9.3.1**   **valid**
Ensure that the IUT, in the call state <state>, on receipt of a valid <service> notification,
    continues basic call handling (if appropriate) and sends no message or information element related to the receipt of the notification.
    Selection: IUT supports network option to check validity of notification contents?

    NOTE 1:   Subclause 9.3.1 of ETS 300 196-1 [1] specifies that in the above circumstances the network shall "forward the notification to the other user involved in the call". In this document it is not possible to specify TPs related to the behaviour of the network between two access points as this is not directly related to user-network protocol.

GFP_N9_01_014   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, having sent a NOTIFY message,
    remains in the same call state.

GFP_N9_01_015   **subclause 9.3.1**   **valid**   **symmetrical**
Ensure that the IUT, in the call state <state>, on receipt of a valid NOTIFY message,
    sends no message and remains in the same call state.

GFP_N9_01_016   **subclause 9.3.2**   **invalid**   **symmetrical**
Ensure that the IUT, in the call state <state>, on receipt of a NOTIFY message containing no Notification indicator information element,
    sends a STATUS message with cause #96.

GFP_N9_01_017   **subclause 9.3.2**   **invalid**   **symmetrical**
Ensure that the IUT, in the call state <state>, on receipt of a NOTIFY message where it does not recognise a new codepoint in a Notification indicator information element,
    sends a STATUS message with cause #100
    or sends no message.
    Selection: IUT supports notification indicators. PICS: SCu 3.1.

GFP_N9_01_018   **subclause 9.3.2**   **invalid**   **symmetrical**
Ensure that the IUT, in the call state <state>, on receipt of a NOTIFY message where it does not recognise extension contents of the Notification indicator information element,
    sends a STATUS message with cause #100
    or sends no message.
    Selection: IUT supports notification parameters. PICS: SCu 3.2.

GFP_N9_01_019   **subclause 9.3.2**   **invalid**   **symmetrical**
Ensure that the IUT, in the call state <state>, on receipt of a <message> where it does not recognise a new codepoint in a Notification indicator information element,
    sends a STATUS message with cause #100
    or sends no message.
    Selection: IUT supports notification indicators. PICS: SCu 3.1.

    NOTE 2:   <message> = any message other than NOTIFY which can contain a Notification indicator information element.

GFP_N9_01_020   **subclause 9.3.2**   **invalid**   **symmetrical**
Ensure that the IUT, in the call state <state>, on receipt of a <message> where it does not recognise extension contents of the Notification indicator information element,
    sends a STATUS message with cause #100
    or sends no message.
    Selection: IUT supports notification parameters. PICS: SCu 3.2.

    NOTE 3:   <message> = any message other than NOTIFY which can contain a Notification indicator information element.

    NOTE 4:   Subclause 9.3.2 of ETS 300 196-1 [1] specifies that in some of the circumstances mentioned in the above TPs "the notification shall be discarded and not forwarded to the other user involved in the call". In this document it is not possible to specify TPs related to the behaviour of the network between two access points as this is not directly related to user-network protocol.

6.2.4.2.3   **Bearer-independent notifications (subclause 9.4)**

    Selection: IUT supports the transport of Bearer-independent notifications? PICS: MCn 3.2.

GFP_N9_02_01   **subclause 9.4.1**   **valid**
Ensure that the IUT, in the call state <state>, to deliver <service> bearer-independent notifications,
    sends, using DL-DATA-REQUEST primitive, a NOTIFY message using the dummy call reference.
    Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N9_02_02   **subclause 9.4.1**   **valid**
Ensure that the IUT, in the call state <state>, to deliver <service> bearer-independent notifications,
sends, using DL-UNIT DATA-REQUEST primitive, a NOTIFY message using the dummy call
reference.
Selection: IUT supports basic access, point-to-multipoint configuration. PICS: [11] MC 2.5.

6.2.5   TSS&TP for clause 10

6.2.5.1   TSS for clause 10

Network-side channel reservation function   (Group number)
    Implicit reservation
        Implicit reservation creation (subclause 10.1.1.1)
            Channel reserved .... (01)
            Receipt of HOLD ACK.. (02)
            Sending of HOLD ACK.. (03)
            Receipt of RELEASE COMPLETE
                Call Held aux state.. (04)
                Retrieve Request aux state .... (05)
                Retrieve Indication aux state .... (06)
            Sending of RELEASE COMPLETE
                Call Held aux state.. (07)
                Retrieve Request aux state .... (08)
                Retrieve Indication aux state .... (09)
            Sending of SUSPEND ACK
                Call Held aux state.. (10)
                Retrieve Request aux state .... (11)
                Retrieve Indication aux state .... (12)
            Sending of RESTART ACK .... (13)
            Receiving of RESTART ACK .... (14)
        Implicit reservation use (subclause 10.1.1.2).......................... (15)
        Implicit reservation cancellation (subclause 10.1.1.3)............. (16)
    Explicit reservation
        Explicit reservation control (subclause 10.1.2.1)
            Invocation
                With reservation indicator.............................. (17)
                Without reservation indicator......................... (18)
                No reservation required .... (19)
            Return error .... (20)
        Explicit reservation management (subclause 10.1.2.2)
            Absence of invoke.. (21)
            Invoke... (22)
            Return error .... (23)
        Explicit reservation cancellation (subclause 10.1.2.3)
            Invoke... (24)
            Return error .... (25)
            Other.. (26)
Generic procedures for supplementary service management
    Activation.. (27)
    Deactivation .... (28)
    Interrogation .... (29)
Generic status request procedure .... (30)

    NOTE 1:   Numbers in brackets represent group numbers and are used in TP identifiers.

    NOTE 2:   The above TSS is hierarchically structured from left to right rather than the more usual top-
              down approach. This allows the TSS to appear on a single page.

Figure 5: TSS

6.2.5.2   TPs for clause 10

How to apply these TPs:

TPs not containing words enclosed in "<" and ">" are testable on their own.

6.2.5.2.1   Network-side channel reservation function

6.2.5.2.1.1   Implicit reservation

Selection: IUT supports implicit reservation. PICS: MCn 4.1.

6.2.5.2.1.1.1   Implicit reservation creation

6.2.5.2.1.1.1.1   Channel reserved

GFP_N10_01_001   subclause 10.1.1.1, 1st paragraph   inopportune   mandatory
Ensure that the IUT, while in the Null call state N00, after reserving B1 channel, on receipt of a SETUP message with Channel Identification information element coded as B1 exclusive,
   responds with a RELEASE COMPLETE with cause #34 or #44 and remains in the Null call state N00.

GFP_N10_01_002   subclause 10.1.1.1, 1st paragraph   inopportune   mandatory
Ensure that the IUT, while in the Null call state N00, after reserving B1 channel, on receipt of a SETUP message with Channel Identification information element coded as B1 exclusive,
   responds with an ALERTING message with Notification Indicator information element coded as "call is a waiting call".

6.2.5.2.1.1.1.2   Receipt of HOLD ACKNOWLEDGE

GFP_N10_02_001   subclause 10.1.1.1, 2nd a)   valid   mandatory
Ensure that the IUT, while in the Call Received call state N07 and Idle auxiliary state for call 1 and the Active call state N10 and Hold Request auxiliary state for call 2, on receipt of a HOLD ACKNOWLEDGE for call 2,
   reserves a channel for that call.

GFP_N10_02_002   subclause 10.1.1.1, 2nd a)   valid   mandatory
Ensure that the IUT, while in the Connect Request call state N08 and Idle auxiliary state for call 1 and the Active call state N10 and Hold Request auxiliary state for call 2, on receipt of a HOLD ACKNOWLEDGE for call 2,
   reserves a channel for that call.

GFP_N10_02_003   subclause 10.1.1.1, 2nd a)   valid   mandatory
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Idle auxiliary state for call 1 and the Active call state N10 and Hold Request auxiliary state for call 2, on receipt of a HOLD ACKNOWLEDGE for call 2,
   reserves a channel for that call.

GFP_N10_02_004   subclause 10.1.1.1, 2nd a)   valid   mandatory
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state for call 1 and the Active call state N10 and Hold Request auxiliary state for call 2, on receipt of a HOLD ACKNOWLEDGE for call 2,
   reserves a channel for that call.

GFP_N10_02_005   subclause 10.1.1.1, 2nd a)   valid   mandatory
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state for call 1 and the Active call state N10 and Hold Request auxiliary state for call 2, on receipt of a HOLD ACKNOWLEDGE for call 2,
   reserves a channel for that call.

GFP_N10_02_006   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state for call 1 and the Active call state N10 and Hold Request auxiliary state for call 2, on receipt of a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

6.2.5.2.1.1.1.3   Sending of HOLD ACKNOWLEDGE

GFP_N10_03_001   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Call Received call state N07 and Idle auxiliary state for call 1 and the Active call state N10 and Hold Indication auxiliary state for call 2, after sending a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

GFP_N10_03_002   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Connect Request call state N08 and Idle auxiliary state for call 1 and the Active call state N10 and Hold Indication auxiliary state for call 2, after sending a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

GFP_N10_03_003   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Idle auxiliary state for call 1 and the Active call state N10 and Hold Indication auxiliary state for call 2, after sending a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

GFP_N10_03_004   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Call Received call state N07 and Call Held auxiliary state for call 1 and the Active call state N10 and Hold Indication auxiliary state for call 2, after sending a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

GFP_N10_03_05   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Connect Request call state N08 and Call Held auxiliary state for call 1 and the Active call state N10 and Hold Indication auxiliary state for call 2, after sending a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

GFP_N10_03_06   **subclause 10.1.1.1, 2nd a)**   **valid**   **mandatory**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Call Held auxiliary state for call 1 and the Active call state N10 and Hold Indication auxiliary state for call 2, after sending a HOLD ACKNOWLEDGE for call 2,
     reserves a channel for that call.

6.2.5.2.1.1.1.4   Receipt of RELEASE COMPLETE

6.2.5.2.1.1.1.4.1   Call Held auxiliary state

GFP_N10_04_01   **subclause 10.1.1.1, 2nd b)**   **valid**   **mandatory**
Ensure that IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_04_02   **subclause 10.1.1.1, 2nd b)**   **valid**   **mandatory**
Ensure that IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_04_03   subclause 10.1.1.1, 2nd b)   valid   mandatory
Ensure that IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_04   subclause 10.1.1.1, 2nd b)   valid   mandatory
Ensure that IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_05   subclause 10.1.1.1, 2nd b)   valid   mandatory
Ensure that IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_06   subclause 10.1.1.1, 2nd b)   valid   mandatory
Ensure that IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_07   subclause 10.1.1.1, 2nd b)   valid   mandatory
Ensure that IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_08   subclause 10.1.1.1, 2nd b)   valid   mandatory
Ensure that IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_09   subclause 10.1.1.1, 2nd b)   valid
Ensure that IUT, while in the Call Received call state N07 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.
        Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary
                rate access.

GFP_N10_04_010   subclause 10.1.1.1, 2nd b)   valid
Ensure that IUT, while in the Connect Request call state N08 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.
        Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary
                rate access.

GFP_N10_04_011   subclause 10.1.1.1, 2nd b)   valid
Ensure that IUT, while in the Incoming Call Proceeding call state N09 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.
        Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary
                rate access.

GFP_N10_04_012   subclause 10.1.1.1, 2nd b)   valid
Ensure that IUT, while in the Overlap Receiving call state N25 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.
        Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary
                rate access.

GFP_N10_04_013 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Disconnect Request call state N11 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_014 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Disconnect Indication call state N12 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_04_015 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Release Request call state N19 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

6.2.5.2.1.1.1.4.2   Retrieve Request auxiliary state

GFP_N10_05_01 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_02 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_03 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_04 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_05 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_06 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_07 subclause 10.1.1.1, 2nd b) valid
Ensure that IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_05_08   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

6.2.5.2.1.1.1.4.3   Retrieve Indication auxiliary state

GFP_N10_06_01   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_02   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_03   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_04   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_05   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_06   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_07   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_06_08   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, on receipt of a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

6.2.5.2.1.1.1.5   Sending of RELEASE COMPLETE

6.2.5.2.1.1.1.5.1   Call Held auxiliary state

GFP_N10_07_01   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_02   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_03   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_04   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_05   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_06   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_07   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_08   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.

GFP_N10_07_09   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Call Received call state N07 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
    creates a reservation against that CEI.
    Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_07_010   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Connect Request call state N08 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.
>   **Selection:**   IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_07_011   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.
>   **Selection:**   IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_07_012   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Overlap Receiving call state N25 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.
>   **Selection:**   IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_07_013   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Disconnect Request call state N11 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.

GFP_N10_07_014   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Disconnect Indication call state N12 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.

GFP_N10_07_015   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Release Request call state N19 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.

6.2.5.2.1.1.1.5.2   Retrieve Request auxiliary state

GFP_N10_08_01   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N25 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.

GFP_N10_08_02   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.

GFP_N10_08_03   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
>   creates a reservation against that CEI.

GFP_N10_08_04   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_08_05   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_08_06   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_08_07   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_08_08   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

6.2.5.2.1.1.1.5.3   Retrieve Indication auxiliary state

GFP_N10_09_01   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_02   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_03   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_04   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_05   subclause 10.1.1.1, 2nd b)   valid
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_06   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_07   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

GFP_N10_09_08   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a RELEASE COMPLETE for call 1,
     creates a reservation against that CEI.

6.2.5.2.1.1.1.6   Sending of SUSPEND ACKNOWLEDGE

6.2.5.2.1.1.1.6.1   Call Held auxiliary state

GFP_N10_10_01   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_02   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_03   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_04   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_05   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_06   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_07   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_08   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_09   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Received call state N07 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.
     Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_10_010   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Connect Request call state N08 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.
     Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_10_011   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Incoming Call Proceeding call state N09 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.
     Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_10_012   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Receiving call state N25 for call 1 and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_013   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Disconnect Request call state N11 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_014   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Disconnect Indication call state N12 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_10_015   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Release Request call state N19 for call 1 (reached via Active state N10) and the Active call state N10 and Call Held auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

6.2.5.2.1.1.1.6.2 Retrieve Request auxiliary state

GFP_N10_11_01   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_11_02   **subclause 10.1.1.1, 2nd b)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
     creates a reservation against that CEI.

GFP_N10_11_03   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_11_04   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_11_05   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_11_06   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_11_07   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_11_08   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Request auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

6.2.5.2.1.1.1.6.3   Retrieve Indication auxiliary state

GFP_N10_12_01   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_12_02   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_12_03   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Idle auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_12_04   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Overlap Sending call state N02 and Hold Request auxiliary state for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE for call 1,
    creates a reservation against that CEI.

GFP_N10_12_05   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Hold Request auxiliary state
for call 1 and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a
SUSPEND ACKNOWLEDGE for call 1,
   creates a reservation against that CEI.

GFP_N10_12_06   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Call Delivered call state N04 and Hold Request auxiliary state for call 1
and the Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND
ACKNOWLEDGE for call 1,
   creates a reservation against that CEI.

GFP_N10_12_07   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state for call 1 and the Active call
state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND ACKNOWLEDGE
for call 1,
   creates a reservation against that CEI.

GFP_N10_12_08   **subclause 10.1.1.1, 2nd c)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Hold Request auxiliary state for call 1 and the
Active call state N10 and Retrieve Indication auxiliary state for call 2, after sending a SUSPEND
ACKNOWLEDGE for call 1,
   creates a reservation against that CEI.

6.2.5.2.1.1.1.7   Sending of RESTART ACKNOWLEDGE

GFP_N10_13_01   **subclause 10.1.1.1, 2nd d)**   **valid**
Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state, after sending a
RESTART ACKNOWLEDGE in response to a RESTART with Restart Indicator information element
coded as "indicated channels",
   creates a channel reservation against the CEI (for that call).

GFP_N10_13_02   **subclause 10.1.1.1, 2nd d)**   **valid**
Ensure that the network, while in the Active call state N10 and Retrieve Request auxiliary state, after
sending a RESTART ACKNOWLEDGE in response to a RESTART with Restart Indicator information
element coded as "indicated channels",
   creates a channel reservation against the CEI (for that call).

GFP_N10_13_03   **subclause 10.1.1.1, 2nd d)**   **valid**
Ensure that the network, while in the Active call state N10 and Retrieve Indication auxiliary state, after
sending a RESTART ACKNOWLEDGE in response to a RESTART with Restart Indicator information
element coded as "indicated channels",
   creates a channel reservation against the CEI (for that call).

6.2.5.2.1.1.1.8   Receipt of RESTART ACKNOWLEDGE

GFP_N10_14_01   **subclause 10.1.1.1, 2nd d)**   **valid**
Ensure that the network, while in the Active call state N10 and Call Held auxiliary state, on receipt of a
RESTART ACKNOWLEDGE in response to a RESTART with Restart Indicator information element
coded as "indicated channels",
   creates a channel reservation against the CEI (for that call).

GFP_N10_14_02   **subclause 10.1.1.1, 2nd d)**   **valid**
Ensure that the network, while in the Active call state N10 and Retrieve Request auxiliary state, on receipt
of a RESTART ACKNOWLEDGE in response to a RESTART with Restart Indicator information element
coded as "indicated channels",
   creates a channel reservation against the CEI (for that call).

GFP_N10_14_03   **subclause 10.1.1.1, 2nd d)**   **valid**
Ensure that the network, while in the Active call state N10 and Retrieve Indication auxiliary state, on
receipt of a RESTART ACKNOWLEDGE in response to a RESTART with Restart Indicator information
element coded as "indicated channels",
   creates a channel reservation against the CEI (for that call).

6.2.5.2.1.1.2 **Implicit reservation use**

GFP_N10_15_01 subclause 10.1.1.2 valid mandatory
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message, and a reservation has already been made for the related CEI,
uses a reservation by responding with a SETUP ACKNOWLEDGE and moves into the Overlap Sending state N02.

GFP_N10_15_02 subclause 10.1.1.2 valid
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message, and a reservation has already been made for the related CEI,
uses a reservation by responding with a CALL PROCEEDING and moves into the Outgoing Call Proceeding state N03.

GFP_N10_15_03 subclause 10.1.1.2 valid
Ensure that the network, while in the Outgoing Call Proceeding call state N03, and a reservation has already been made for the related CEI,
uses a reservation by sending an ALERTING and moves into the Call Delivered call state N04.

GFP_N10_15_04 subclause 10.1.1.2 valid
Ensure that the network, while in the Outgoing Call Proceeding call state N03, and a reservation has already been made for the related CEI,
uses a reservation by responding with a CONNECT and moves into the Active state N10.

GFP_N10_15_05 subclause 10.1.1.2 valid
Ensure that the network, while in the Call Present call state N06, on receipt of a CONNECT message, and a reservation has already been made for the related CEI,
uses a reservation by responding with a CONNECT ACKNOWLEDGE and moves into the Active state N10.

GFP_N10_15_06 subclause 10.1.1.2 valid
Ensure that the network, while in the Null call state N00, on receipt of a RETRIEVE message, and a reservation has already been made for the related CEI,
uses a reservation by responding with a RETRIEVE ACKNOWLEDGE and moves into the Active state N10.

GFP_N10_15_07 subclause 10.1.1.2 valid
Ensure that the network, while in the Call Present call state N06, on receipt of a SETUP ACKNOWLEDGE, and a reservation has already been made for the related CEI,
uses the reservation and moves into the Overlap Receiving state N25.
Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_15_08 subclause 10.1.1.2 valid
Ensure that the network, while in the Call Present call state N06, on receipt of a CALL PROCEEDING, and a reservation has already been made for the related CEI,
uses the reservation and moves into the Incoming Call Proceeding call state N09.
Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_15_09 subclause 10.1.1.2 valid
Ensure that the network, while in the Call Present call state N06, on receipt of an ALERTING, and a reservation has already been made for the related CEI,
uses the reservation and moves into the Call Received call state N07.
Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

GFP_N10_15_010　　　**subclause 10.1.1.2**　　　　　　　**valid**
Ensure that the network, while in the Call Present call state N06, on receipt of a CONNECT, and a reservation has already been made for the related CEI,
　　　uses the reservation and moves into the Connect Request call state N08.
　　　Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary rate access.

6.2.5.2.1.1.3　　　Implicit reservation cancellation

GFP_N10_16_01　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Call Held auxiliary state, on receipt of a RELEASE COMPLETE for that call, and a reservation has already been made for the related CEI,
　　　deletes the reservation against that CEI.

GFP_N10_16_02　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Retrieve Request auxiliary state, on receipt of a RELEASE COMPLETE for that call, and a reservation has already been made for the related CEI,
　　　deletes the reservation against that CEI.

GFP_N10_16_03　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Retrieve Indication auxiliary state, on receipt of a RELEASE COMPLETE for that call, and a reservation has already been made for the related CEI,
　　　deletes the reservation against that CEI.

GFP_N10_16_04　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Call Held auxiliary state, and a reservation has already been made for the related CEI,
　　　sends a RELEASE COMPLETE for that call and deletes the reservation against that CEI.

GFP_N10_16_05　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Retrieve Request auxiliary state, and a reservation has already been made for the related CEI,
　　　sends a RELEASE COMPLETE for that call and deletes the reservation against that CEI.

GFP_N10_16_06　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Retrieve Indication auxiliary state, and a reservation has already been made for the related CEI,
　　　sends a RELEASE COMPLETE for that call and deletes the reservation against that CEI.

GFP_N10_16_07　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10 and Resume Request auxiliary state, and a reservation has already been made for the related CEI,
　　　sends a RESUME ACKNOWLEDGE and cancels the reservation against that CEI.

GFP_N10_16_08　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10, on receipt of a RESTART with restart indicator information element coded as "single interface", and a reservation has already been made for the related CEI,
　　　responds with a RESTART ACKNOWLEDGE and cancels the reservation against that CEI.

GFP_N10_16_09　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Active call state N10, on receipt of a RESTART with restart indicator information element coded as "all interfaces", and a reservation has already been made for the related CEI,
　　　responds with a RESTART ACKNOWLEDGE and cancels the reservation against that CEI.

GFP_N10_16_010　　　**subclause 10.1.1.3**　　　　　　　**valid**
Ensure that the network, while in the Restart Request state, with the restart indicator information element of the RESTART already sent coded as "single interface", on receipt of a RESTART ACKNOWLEDGE, and a reservation has already been made for the related CEI,
　　　cancels the reservation against that CEI.

GFP_N10_16_011   **subclause 10.1.1.3**   **valid**
Ensure that the network, while in the Restart Request state, with the restart indicator information element of the RESTART already sent coded as "all interfaces", on receipt of a RESTART ACKNOWLEDGE, and a reservation has already been made for the related CEI,
    cancels the reservation against that CEI.

GFP_N10_16_012   **subclause 10.1.1.3**   **inopportune**
Ensure that the network, while in the Call Present call state, N06, on receipt of a DL-RELEASE-INDICATION primitive, and a reservation has already been made for the related CEI,
    cancels the implicit reservation against that CEI.

6.2.5.2.1.2   Explicit reservation

Selection: IUT supports explicit reservation. PICS: MCn 4.2.

6.2.5.2.1.2.1   Explicit reservation control

6.2.5.2.1.2.1.1   Invocation

6.2.5.2.1.2.1.1.1   With reservation indicator

GFP_N10_17_01   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10, on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required with reservation indicator",
    responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_17_02   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Release Request call state N19, on receipt of a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required with reservation indicator",
    responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_17_03   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10 and Idle auxiliary state, on receipt of a HOLD with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required with reservation indicator",
    responds with a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_17_04   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10 and Hold Request auxiliary state, on receipt of a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required with reservation indicator",
    responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Call Held auxiliary state.

6.2.5.2.1.2.1.1.2 Without reservation indicator

GFP_N10_18_01   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
> responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_02   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Release Request call state N19, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
> responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_03   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10 and Idle auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a HOLD with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
> responds with a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_04   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10 and Hold Request auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
> responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_05   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Active call state N10, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
> responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_06   **subclause 10.1.2.1**   **valid**
Ensure that the network, while in the Release Request call state N19, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
> responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_07   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Idle auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a HOLD with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
     responds with a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_08   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Hold Request auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "reservation required without reservation indicator",
     responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_09   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
     responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_010   subclause 10.1.2.1   valid
Ensure that the network, while in the Release Request call state N19, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
     responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_011   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Idle auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a HOLD with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
     responds with a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_012   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Hold Request auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "no", on receipt of a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
     responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_013   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
     responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_014   subclause 10.1.2.1   valid
Ensure that the network, while in the Release Request call state N19, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
    responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Null call state N00.

GFP_N10_18_015   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Idle auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a HOLD with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
    responds with a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Call Held auxiliary state.

GFP_N10_18_016   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Hold Request auxiliary state, with the subscription parameter (if any) for the mandatory use of reservation indicators set to "yes", on receipt of a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with no argument,
    responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component with a reservation indicator parameter and moves into the Call Held auxiliary state.

6.2.5.2.1.2.1.1.3   No reservation required

GFP_N10_19_01   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10, on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "no reservation required",
    responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter, does not provide an implicit reservation and moves into the Null call state N00.

GFP_N10_19_02   subclause 10.1.2.1   valid
Ensure that the network, while in the Release Request call state N19, on receipt of a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "no reservation required",
    responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter, does not provide an implicit reservation and moves into the Null call state N00.

GFP_N10_19_03   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Idle auxiliary state, on receipt of a HOLD with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "no reservation required",
    responds with a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter, does not provide an implicit reservation and moves into the Call Held auxiliary state.

GFP_N10_19_04   subclause 10.1.2.1   valid
Ensure that the network, while in the Active call state N10 and Hold Request auxiliary state, on receipt of a HOLD ACKNOWLEDGE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component with the argument "no reservation required",
    responds with a FACILITY message with a Facility information element containing a <service> ExplicitReservationCreationControl return result component without a reservation indicator parameter, does not provide an implicit reservation and moves into the Call Held auxiliary state.

6.2.5.2.1.2.1.2   Return error

GFP_N10_20_01   subclause 10.1.2.1   invalid
Ensure that the network, while in the Active call state N10, on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component, but the maximum number of reservations already exists for that CEI,
    responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return error component with the error "maximum number of reservations reached" and moves into the Null call state N00.

GFP_N10_20_02   subclause 10.1.2.1   invalid
Ensure that the network, while in the Active call state N10, on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component, but the function is not available,
    responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return error component indicating "notAvailable" and moves into the Null call state N00.

GFP_N10_20_03   subclause 10.1.2.1   invalid
Ensure that the network, while in the Active call state N10, on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component, but the function is not subscribed to,
    responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return error component indicating "notSubscribed" and moves into the Null call state N00.

GFP_N10_20_04   subclause 10.1.2.1   invalid
Ensure that the network, while in the Active call state N10, on receipt of a RELEASE with a Facility information element containing a <service> ExplicitReservationCreationControl invoke component,
    responds with a RELEASE COMPLETE with a Facility information element containing a <service> ExplicitReservationCreationControl return error component indicating "unwanted reservation created" and moves into the Null call state N00.

6.2.5.2.1.2.2   Explicit reservation management

6.2.5.2.1.2.2.1   Absence of invoke

GFP_N10_21_01   subclause 10.1.2.2, 2nd paragraph   valid
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel but the message does not contain a Facility information element with an ExplicitReservationManagement invoke component, and if both an implicit and explicit reservation exists,
    uses the implicit reservation and moves into the Call Initiated call state N01.

GFP_N10_21_02   subclause 10.1.2.2, 2nd paragraph   valid
Ensure that the network, while in the Call Present call state N06, on receipt of a CALL PROCEEDING message with a Channel Identification information element selecting a channel but the message does not contain a Facility information element with an ExplicitReservationManagement invoke component, and if both an implicit and explicit reservation exists,
    uses the implicit reservation and moves into the Incoming Call Proceeding call state N09.

GFP_N10_21_03   subclause 10.1.2.2, 2nd paragraph   valid
Ensure that the network, while in the Call Present call state N06, on receipt of a CONNECT message with a Channel Identification information element selecting a channel but the message does not contain a Facility information element with an ExplicitReservationManagement invoke component, and if both an implicit and explicit reservation exists,
    uses the implicit reservation and moves into the Connect Request call state N08.

6.2.5.2.1.2.2.2 Presence of invoke

GFP_N10_22_01   subclause 10.1.2.2, 4th paragraph   valid
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element and if both an implicit and explicit reservation exists,
> uses the explicit reservation, responding with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationManagement return result component in a Facility information element and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_22_02   subclause 10.1.2.2, 4th paragraph   valid
Ensure that the network, while in the Call Present call state N06, on receipt of a CALL PROCEEDING message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element and if both an implicit and explicit reservation exists,
> uses the explicit reservation, responding with a FACILITY message with an ExplicitReservationManagement return result component in a Facility information element and moves to the Incoming Call Proceeding call state N09.

GFP_N10_22_03   subclause 10.1.2.2, 4th paragraph   valid
Ensure that the network, while in the Call Present call state N06, on receipt of an ALERTING message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element and if both an implicit and explicit reservation exists,
> uses the explicit reservation, responding with a FACILITY message with an ExplicitReservationManagement return result component in a Facility information element and moves to the Call Received call state N07.

GFP_N10_22_04   subclause 10.1.2.2, 4th paragraph   valid
Ensure that the network, while in the Call Received call state N07, on receipt of a CONNECT message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element and if both an implicit and explicit reservation exists,
> uses the explicit reservation, responding with a CONNECT ACKNOWLEDGE or FACILITY message with an ExplicitReservationManagement return result component in a Facility information element and moves to the Active state N10.

6.2.5.2.1.2.2.3 Return error

GFP_N10_23_01   subclause 10.1.2.2, 5th paragraph   invalid
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element and an explicit reservation does not exist,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationManagement return error component in a Facility information element with the error "no explicit reservation exists" and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_23_02   subclause 10.1.2.2, 5th paragraph   invalid
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element but with an invalid reservation indicator,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationManagement return error component in a Facility information element with the error "invalid reservation indicator" and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_23_03   **subclause 10.1.2.2, 5th paragraph**   **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element but the function is not available,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationManagement return error component in a Facility information element indicating "notAvailable" and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_23_04   **subclause 10.1.2.2, 5th paragraph**   **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element but the function is not subscribed to,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationManagement return error component in a Facility information element indicating "notSubscribed" and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_23_05   **subclause 10.1.2.2, 5th paragraph**   **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with a Channel Identification information element selecting a channel, with an ExplicitReservationManagement invoke component in a Facility information element but the implicit reservation function is used,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationManagement return error component in a Facility information element with the error implicit reservation used and moves to the relevant state N02, N03, N04, or N10.

6.2.5.2.1.2.3   Explicit reservation cancellation

6.2.5.2.1.2.3.1   Invocation

GFP_N10_24_01   **subclause 10.1.2.3, 2nd paragraph**   **valid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with an ExplicitReservationCancel invoke component in a Facility information element,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with an ExplicitReservationCancel return result component in a Facility information element.

GFP_N10_24_02   **subclause 10.1.2.3, 2nd paragraph**   **valid**
Ensure that the network, while in the Call Present call state N06, on receipt of a CALL PROCEEDING message with an ExplicitReservationCancel invoke component in a Facility information element,
> responds with a FACILITY message with an ExplicitReservationCancel return result component in a Facility information element and moves to the Incoming Call Proceeding call state N09.

GFP_N10_24_03   **subclause 10.1.2.3, 2nd paragraph**   **valid**
Ensure that the network, while in the Call Present call state N06, on receipt of an ALERTING message with an ExplicitReservationCancel invoke component in a Facility information element,
> responds with a FACILITY message with an ExplicitReservationCancel return result component in a Facility information element and moves to the Call Received call state N07.

GFP_N10_24_04   **subclause 10.1.2.3, 2nd paragraph**   **valid**
Ensure that the network, while in the Call Received call state N07, on receipt of a CONNECT message with an ExplicitReservationManagement invoke component in a Facility information element,
> responds with a CONNECT ACKNOWLEDGE or FACILITY message with an ExplicitReservationCancel return result component in a Facility information element and moves to the Active state N10.

6.2.5.2.1.2.3.2 Return error

GFP_N10_25_01 **subclause 10.1.2.3, 4th paragraph** **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with an ExplicitReservationCancel invoke component in a Facility information element, and no explicit reservation exists,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with a Facility information element containing a <service> ExplicitReservationCancel return error component, indicating no explicit reservation exists and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_25_02 **subclause 10.1.2.3, 4th paragraph** **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with an ExplicitReservationCancel invoke component in a Facility information element, and it contains an invalid reservation indicator,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with a Facility information element containing a <service> ExplicitReservationCancel return error component, indicating invalid reservation indicator and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_25_03 **subclause 10.1.2.3, 4th paragraph** **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with an ExplicitReservationCancel invoke component in a Facility information element, and the function is not available,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with a Facility information element containing a <service> ExplicitReservationCancel return error component, indicating function "notAvailable" and moves to the relevant state N02, N03, N04, or N10.

GFP_N10_25_04 **subclause 10.1.2.3, 4th paragraph** **invalid**
Ensure that the network, while in the Null call state N00, on receipt of a SETUP message with an ExplicitReservationCancel invoke component in a Facility information element, and the function is not subscribed to,
> responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with a Facility information element containing a <service> ExplicitReservationCancel return error component, indicating function "notSubscribed" and moves to the relevant state N02, N03, N04, or N10.

6.2.5.2.1.2.3.3 Other

GFP_N10_26_01 **subclause 10.1.2.3, 6th paragraph** **valid**
Ensure that the network while in the Active call state N10, on receipt of a RELEASE COMPLETE for the last call on that CEI,
> cancels all reservations.

GFP_N10_26_02 **subclause 10.1.2.3, 6th paragraph** **valid**
Ensure that the network, while in the Active call state N10, after sending a RELEASE COMPLETE for the last call on that CEI,
> cancels all reservations.

GFP_N10_26_03 **subclause 10.1.2.3, 6th paragraph** **valid**
Ensure that the network, while in the Restart Request state, after sending a RESTART ACKNOWLEDGE in response to a RESTART with Restart indicator information element coded as "single interface",
> cancels all reservations.

GFP_N10_26_04 **subclause 10.1.2.3, 6th paragraph** **valid**
Ensure that the network, while in the Restart Request state, after sending a RESTART ACKNOWLEDGE in response to a RESTART with Restart indicator information element coded as "all interfaces",
> cancels all reservations.

GFP_N10_26_05   subclause 10.1.2.3, 6th paragraph   valid
Ensure that the network, while in the Null call state N00, after receiving a RESTART ACKNOWLEDGE in response to a RESTART with Restart indicator information element coded as "single interface",
  cancels all reservations.

GFP_N10_26_06   subclause 10.1.2.3, 6th paragraph   valid
Ensure that the network, while in the Null call state N00, after receiving a RESTART ACKNOWLEDGE in response to a RESTART with Restart indicator information element coded as "all interfaces",
  cancels all reservations.

GFP_N10_26_07   subclause 10.1.2.3, 6th paragraph   inopportune
Ensure that the network, while in the Call Present call state N06, on receipt of a DL-RELEASE-INDICATION primitive,
  cancels all explicit reservations.

6.2.5.2.2   Generic procedures for supplementary service management

>   **Selection:** IUT supports the generic procedures for supplementary service management. PICS: MCn 5.

>   NOTE: The states referred to in the following subclauses, and defined in subclause 10.2.6 of ETS 300 196-1 [1] refer only to the state of a specific supplementary service management request. The state of the service as seen by the user or network is covered by the individual supplementary services referencing these procedures, e.g. the Idle state indicates that no request is in progress, but the service may be activated, or deactivated.

6.2.5.2.2.1   Activation

>   **Selection:** IUT supports activation. PICS: MCn 5.1.

GFP_N10_27_01   subclause 10.2.2.1, 2nd paragraph   valid
Ensure that the IUT, in the Idle state, on receipt of a FACILITY message with a Facility information element containing a <service> Activate invoke component,
  responds with a FACILITY message with a Facility information element containing a <service> Activate return result component, optionally a status notification, and enters the Idle state.

GFP_N10_27_02   subclause 10.2.2.2, 1st paragraph   invalid
Ensure that the IUT, in the Idle state, unable to activate a supplementary service, on receipt of a FACILITY message with a Facility information element containing a <service> Activate invoke component,
  responds with a FACILITY message with a Facility information element containing a <service> Activate return error component and re-enters the Idle state.

GFP_N10_27_03   subclause 10.2.2.2, 5th paragraph   inopportune
Ensure that the IUT, while in the Activate Request state, on receipt of a DL-RELEASE-INDICATION primitive,
  aborts the activation and enters the Idle state.

GFP_N10_27_04   subclause 10.2.2.2, 6th paragraph   inopportune
Ensure that the IUT, while in the Activate Request state, on receipt of a DL-ESTABLISH-INDICATION primitive,
  ignores the indication and remains in the current state.

6.2.5.2.2.2 Deactivation

Selection: IUT supports deactivation. PICS: MCn 5.2.

GFP_N10_28_01   subclause 10.2.3.1, 2nd paragraph   valid
Ensure that the IUT, in the Idle state, on receipt of a FACILITY message with a Facility information element containing a <service> Deactivate invoke component,
    responds with a FACILITY message with a Facility information element containing a <service> Deactivate return result component, optionally a status notification, and enters the Idle state.

GFP_N10_28_02   subclause 10.2.3.2, 1st paragraph   invalid
Ensure that the IUT, in the Idle state, unable to deactivate a supplementary service, on receipt of a FACILITY message with a Facility information element containing a <service> Deactivate invoke component,
    responds with a FACILITY message with a Facility information element containing a <service> deactivate return error component and enters the Idle state.

GFP_N10_28_03   subclause 10.2.3.2, 5th paragraph   inopportune
Ensure that the IUT, in the Deactivate Request state, on receipt of a DL-RELEASE-INDICATION primitive,
    aborts the deactivation and enters the Idle state.

GFP_N10_28_04   subclause 10.2.3.2, 6th paragraph   inopportune
Ensure that the IUT, in the Deactivate Request state, on receipt of a DL-ESTABLISH-INDICATION primitive,
    ignores the indication and remains in the current state.

6.2.5.2.2.3 Interrogation

Selection: IUT supports interrogation. PICS: MCn 5.3.

GFP_N10_29_01   subclause 10.2.4.1, 2nd paragraph   valid
Ensure that the IUT, in the Idle state, on receipt of a FACILITY message with a Facility information element containing a <service> Interrogate invoke component indicating all instances of a supplementary service,
    responds with a FACILITY message with a Facility information element containing a <service> Interrogate return result component with a list of all active instances of a supplementary service and enters the Idle state.

GFP_N10_29_02   subclause 10.2.4.1, 2nd paragraph   valid
Ensure that the IUT, in the Idle state, on receipt of a FACILITY message with a Facility information element containing a <service> Interrogate invoke component indicating a specific instance of a supplementary service,
    responds with a FACILITY message with a Facility information element containing a <service> Interrogate return result component stating whether the supplementary service is active or registered and enters the Idle state.

GFP_N10_29_03   subclause 10.2.4.2, 1st paragraph   invalid
Ensure that the IUT, in call state <state>, while in the idle state, if it is unable to provide information as requested on receipt of a FACILITY message with a Facility information element containing a <service> interrogate invoke component,
    responds with a FACILITY message with a Facility information element containing a <service> interrogate return error component and returns to the idle state.

GFP_N10_29_04   subclause 10.2.4.2, 5th paragraph   inopportune
Ensure that the IUT, in call state <state>, while in the Interrogate Request state, on receipt of a DL-RELEASE-INDICATION primitive,
    aborts the interrogation and enters the Idle state.

GFP_N10_29_05   subclause 10.2.4.2, 6th paragraph   inopportune
Ensure that the IUT, in call state <state>, while in the Interrogate Request state, on receipt of a DL-ESTABLISH-INDICATION primitive,
    ignores the indication and remains in the current state.

6.2.5.2.3 Generic status request procedure

Selection: IUT supports the generic status request procedure. PICS: MCn 6.

GFP_N10_30_01   subclause 10.3.2, 2nd paragraph   valid
Ensure the IUT, to check whether terminal(s) are compatible or not and free or busy,
    sends a FACILITY message with a Facility information element containing a StatusRequest invoke
    component with a compatibilityMode, and Bearer capability and optionally High layer and Low layer
    compatibility information elements and then enters the Waiting Status state.

GFP_N10_30_02   subclause 10.3.2, 20th paragraph a)   valid
Ensure the IUT, while in the Waiting Status state, on receipt of a FACILITY message with a Facility
information element containing a <service> StatusRequest return result component,
    notes the result and remains in the same state.
    Selection: IUT supports basic access, point-to-multipoint configuration. PICS: [11] MC 2.5.

GFP_N10_30_03   subclause 10.3.2, 20th paragraph a)   valid
Ensure the IUT, while in the Waiting Status state, on receipt of a FACILITY message with a Facility
information element containing a <service> StatusRequest return result component,
    notes the result and enters the Idle state.
    Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary
        rate access.

GFP_N10_30_04   subclause 10.3.3, 1st paragraph   invalid
Ensure the IUT, while in the Waiting Status state, on receipt of a FACILITY message with a Facility
information element containing a <service> StatusRequest reject component,
    notes the result and remains in the same state.
    Selection: IUT supports basic access, point-to-multipoint configuration. PICS: [11] MC 2.5.

GFP_N10_30_05   subclause 10.3.3, 1st paragraph   invalid
Ensure the IUT, while in the Waiting Status state, on receipt of a FACILITY message with a Facility
information element containing a <service> StatusRequest reject component,
    notes the result and enters the Idle state.
    Selection: IUT supports point-to-point configuration. PICS: [11] MC 2.4 OR IUT supports primary
        rate access.

GFP_N10_30_06   subclause 10.3.4   valid
Ensure the IUT, while in the Waiting Status state, on expiry of timer T-STATUS,
    enters the Idle state.

6.2.6 TSS&TP for clause 11

6.2.6.1 TSS for clause 11

GFP - clause 11

Facility information element
(01)

Extended facility information element
(02)
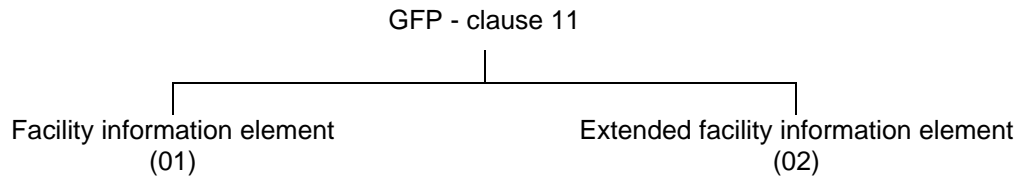
NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 6: TSS

6.2.6.2 TPs for clause 11

6.2.6.2.1 Facility information element

GFP_N11_01_01   subclause 11.2.2.1   valid   symmetrical
Ensure that the IUT, while in the <call state>, to send one or more components to control a supplementary service,
> sends a <message> containing a Facility information element with one or more components encoded according to the Basic Encoding Rules (BER) as specified in CCITT Recommendation X.209 [12].

GFP_N11_01_02   subclause 11.2.2.1   valid   symmetrical
Ensure that the IUT, while in the <call state>, on receipt of a <message> containing a Facility information element with one or more components encoded according to the BER as specified in CCITT Recommendation X.209 [12] and using a combination of the short, long and indefinite length formats,
> accepts the message and its contents as valid and responds appropriately for the supplementary service.

6.2.6.2.2 Extended facility information element

GFP_N11_02_01   subclause 11.2.2.1   valid   symmetrical
Ensure that the IUT, while in the <call state>, to send one or more components to control a supplementary service where these components would be too long to be included in a Facility information element,
> sends a <message (possibly segmented)> containing an Extended facility information element with one or more components encoded according to the BER as specified in CCITT Recommendation X.209 [12].

GFP_N11_02_02   subclause 11.2.2.1   valid   symmetrical
Ensure that the IUT, while in the <call state>, on receipt of a <message (possibly segmented)> containing an Extended facility information element with one or more components encoded according to the BER as specified in CCITT Recommendation X.209 [12] and using a combination of the short, long and indefinite length formats,
> accepts the message and its contents as valid and responds appropriately for the supplementary service.

6.2.7 TSS&TP for annex D

6.2.7.1 TSS for annex D

GFP - annex D

|
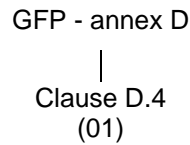
Clause D.4
(01)

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

Figure 7: TSS

6.2.7.2 TPs for annex D

6.2.7.2.1 Definition of Q.931 information elements

GFP_ND_01_01 **clause D.4** **valid** **symmetrical**
Ensure that the IUT, while in the <call state>, on receipt of a <message> containing a Facility information element with a <component> containing a parameter of type Q931InformationElement including two or more Q.931 information elements whose order of appearance is not in ascending order of their information element identifier,

accepts the message and its contents as valid and responds appropriately for the supplementary service.

NOTE: When generating a specific TP from this TP and repeated Bearer capability or High layer compatibility information elements are to be used, the semantic attached to their order of appearance should be taken into account.

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 network equipment claiming conformance to ETS 300 196-1 [1].

History

Document history			
March 1996	Public Enquiry	PE 103:	1996-03-04 to 1996-06-28