

ETSI EN 300 196-5 V1.2.1 (2001-11)

European Standard (Telecommunications series)

**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**



Reference

REN/SPAN-130135-5

Keywords

DSS1, functional, ISDN, supplementary service,
TSS&TP, network

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, send your comment to:

editor@etsi.fr

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2001.
All rights reserved.

Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions	7
3.1 Definitions related to conformance testing.....	7
3.2 Definitions related to EN 300 196-1.....	7
4 Abbreviations	8
5 General Test Suite Structure (TSS)	9
6 TSS&TP	9
6.1 Introduction	9
6.1.1 TP naming convention	9
6.1.2 Source of TP definition.....	10
6.1.3 TP structure.....	10
6.1.4 Test strategy.....	10
6.1.5 Test of call states	10
6.2 Network TSS&TP for the generic functional protocol.....	11
6.2.1 TSS&TP for clauses 1 to 6	11
6.2.2 TSS&TP for clause 7	11
6.2.2.1 TSS for clause 7	11
6.2.2.2 TPs for clause 7.....	11
6.2.2.2.1 Auxiliary states.....	11
6.2.2.2.2 Hold function.....	13
6.2.2.2.3 Retrieve function	18
6.2.2.2.4 Clearing of a held call.....	23
6.2.3 TSS&TP for clause 8.....	24
6.2.3.1 TSS for clause 8	24
6.2.3.2 TPs for clause 8.....	24
6.2.3.2.1 Introduction	24
6.2.3.2.2 Application of operations (clause 8.2).....	25
6.2.3.2.3 Transport of components (clause 8.3)	27
6.2.3.2.4 GAT-control (clause 8.3.3.2).....	32
6.2.3.2.5 Error procedures (clause 8.4).....	32
6.2.4 TSS&TP for clause 9	32
6.2.4.1 TSS for clause 9	32
6.2.4.2 TPs for clause 9.....	33
6.2.4.2.1 Introduction	33
6.2.4.2.2 Bearer-related notifications	33
6.2.4.2.3 Bearer-independent notifications (clause 9.4)	35
6.2.5 TSS&TP for clause 10.....	36
6.2.5.1 TSS for clause 10.....	36
6.2.5.2 TPs for clause 10.....	37
6.2.5.2.1 Network-side channel reservation function	37
6.2.5.2.2 Generic procedures for supplementary service management	57
6.2.5.2.3 Generic status request procedure	58
6.2.6 TSS&TP for clause 11	59
6.2.6.1 TSS for clause 11	59
6.2.6.2 TPs for clause 11	59
6.2.6.2.1 Facility information element	59
6.2.6.2.2 Extended facility information element	59
6.2.7 TSS&TP for annex D.....	60
6.2.7.1 TSS for annex D.....	60
6.2.7.2 TPs for annex D	60

6.2.7.2.1	Definition of Q.931 information elements.....	60
6.2.8	TSS&TP for annex E.....	60
7	Compliance.....	60
8	Requirements for a comprehensive testing service	60
History	61

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

The present document is part 5 of a multi-part deliverable covering the Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; as described below:

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

National transposition dates	
Date of adoption of this EN:	9 November 2001
Date of latest announcement of this EN (doa):	28 February 2002
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 August 2002
Date of withdrawal of any conflicting National Standard (dow):	31 August 2002

1 Scope

The present document 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 [5]) 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 the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 196-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to EN 300 196-1 [1].

The present document adds the TSS and TPs relating to the bearer independent connection oriented transport mechanism.

2 References

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

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI EN 300 196-1: "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".
- [2] ETSI EN 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 - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".
- [5] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [6] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

NOTE: There are no clause numbering in EN 300 403-1; the clause numbers used in the present document actually refer to the clause numbers of ITU-T Recommendation Q.931.

- [7] ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
- [8] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [9] ITU-T Recommendation X.209 (1988): "Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)".

- [10] ITU-T Recommendation X.690: "Information technology - ASN.1 encoding rules - Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".
- [11] ETSI EN 301 313-3: "Integrated Services Digital Network (ISDN) and Broadband Integrated Services Digital Network (B-ISDN); Generic Addressing and Transport (GAT); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification".

3 Definitions

For the purposes of the present documents, the following terms and definitions apply:

3.1 Definitions related to conformance testing

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

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

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

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

point of control and observation: Refer to ISO/IEC 9646-1 [3].

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

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

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

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

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

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

3.2 Definitions related to EN 300 196-1

bearer-related transport mechanism: procedure tied to the procedures for basic call control and tied to a connection in progress, active or in the clearing phase

NOTE 1: The call reference used by the basic call control procedure is adopted by the bearer-related service invocations to correlate with the appropriate basic call control transaction.

bearer-independent transport mechanism: procedure independent of the procedures for basic call control and not correlated to a connection

connection-oriented transport mechanism: mechanism requiring the establishment of a data link and a transport association between the service requesting entity and the service provider

NOTE 2: It provides a facility to access common information element category operations where success and/or failure reporting is required. It provides a call reference within the transport association as a means to associate uniquely among the related transport messages.

connectionless transport mechanism: mechanism where no transport association exists but a single transport message transfer is provided using the dummy call reference

call held auxiliary state: See EN 300 196-1 [1], clause 7.1.2.

call reference: See EN 300 403-1 [6], clause 4.3.

called user: user at the destination side of the call

calling user: user at the origination side of the call

component: See EN 300 196-1 [1], clause 11.2.2.1.

hold requested auxiliary state: See EN 300 196-1 [1], clause 7.1.2.

idle auxiliary state: See EN 300 196-1 [1], clause 7.1.2.

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [7], definition 308.

invoke component: See EN 300 196-1 [1], clause 11.2.2.1.

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

network (T): 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 EN 300 196-1 [1], clause 7.1.2.

return error component: See EN 300 196-1 [1], clause 11.2.2.1.

return result component: See EN 300 196-1 [1], clause 11.2.2.1.

service; telecommunication service: See ITU-T Recommendation I.112 [7], definition 201.

supplementary service: See ITU-T Recommendation I.210 [8], clause 2.4.

4 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CR	Call Reference
DSS1	Digital Subscriber Signalling System No. one
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
NCICS	Networked Call Independent Signalling Connection
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure
UI	Unnumbered Information

5 General Test Suite Structure (TSS)

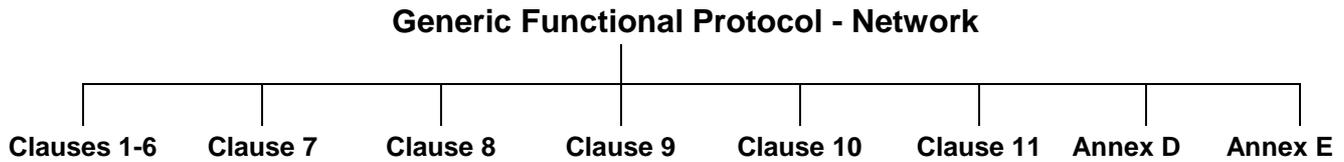


Figure 1: Test suite structure

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

6 TSS&TP

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

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

Table 1: TP identifier naming convention scheme

Identifier: <ss>_<iut><clause>_<group>_<nnn>			
<ss>	=	supplementary service:	e.g. "GFP"
<iut>	=	type of IUT:	U User N Network
<clause>	=	clause	1 or 2 character field representing a clause number from EN 300 196-1 [1]
<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 EN 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

TP part	Text	Example
Header	<Identifier> <i>tab</i> <paragraph number in base EN> <i>tab</i> <type of test> <i>CR</i>	see table 1 clause 0.0.0 valid, invalid, inopportune
Stimulus	Ensure that the IUT in the <basic call state> <trigger> <i>see below for message structure</i> or <goal>	N10, N10, etc. receiving a XXXX message to request a ...
Reaction	<action> <conditions> <i>if the action is sending</i> <i>see below for message structure</i> <next action>, etc. and remains in the same state or and enters state <state>	sends, saves, does, etc. using en-bloc sending, ...
Message structure	<message type> message containing a a) <info element> information element with b) a <field name> encoded as or including <coding of the field> and <i>back to a or b</i> ,	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 EN 300 196-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification EN 300 196-2 [2]. The criteria applied include the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the TP is not considered.

6.1.5 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 clause 5.8.10 of EN 300 403-1 [6]. 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.

NOTE: Timer T322 is associated with this STATUS ENQUIRY/STATUS procedure.

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

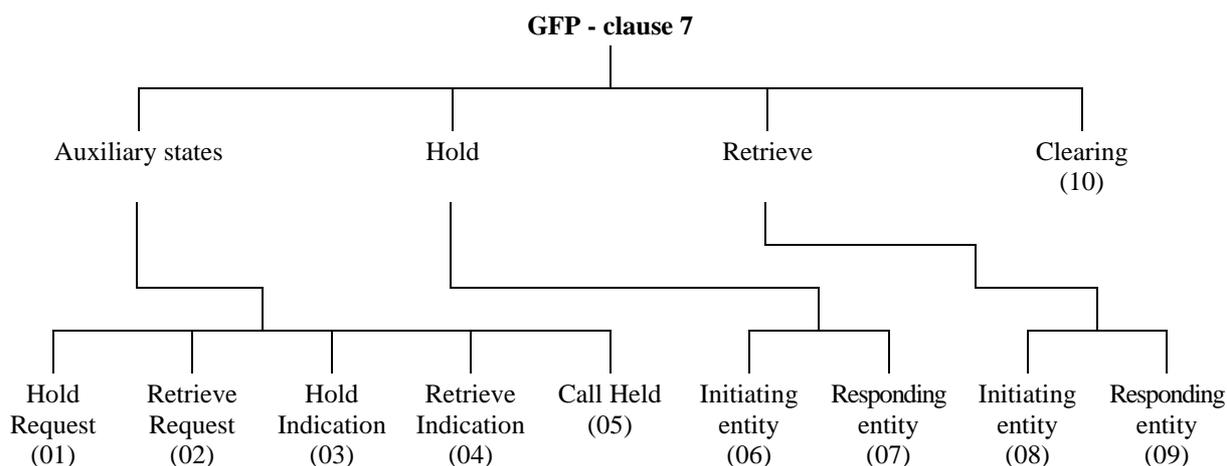


Figure 2: TSS

6.2.2.2 TPs for clause 7

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

NOTE 1: There are no auxiliary states relating to bearer independent connection oriented transport mechanism for general signalling

NOTE 2: These TPs for clause 7 do not apply to NCICS.

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_001 clause 7.1.2, 3rd paragraph

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_002 clause 7.1.2, 3rd paragraph

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_003 clause 7.1.2, 3rd paragraph

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_004 clause 7.1.2, 4th paragraph

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_001 clause 7.1.2, 3rd paragraph

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_002 clause 7.1.2, 3rd paragraph

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_003 clause 7.1.2, 3rd paragraph

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_004 clause 7.1.2, 4th paragraph

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 a responding entity. PICS: R 5.2.

GFP_N7_03_001 clause 7.1.2, 3rd paragraph

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_002 clause 7.1.2, 3rd paragraph

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_003 clause 7.1.2, 3rd paragraph

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_004 clause 7.1.2, 3rd paragraph

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 a responding entity. PICS: R 5.2.

GFP_N7_04_001 clause 7.1.2, 3rd paragraph

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_002 clause 7.1.2, 3rd paragraph

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_003 clause 7.1.2, 3rd paragraph

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_004 clause 7.1.2, 3rd paragraph

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_001 clause 7.1.2, 3rd paragraph

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_002 clause 7.1.2, 3rd paragraph

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_003 clause 7.1.2, 3rd paragraph

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_004 clause 7.1.2, 3rd paragraph

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_001 clause 7.2.1.1

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_002 clause 7.2.1.1

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_003 clause 7.2.1.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_004 clause 7.2.1.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_005 clause 7.2.1.1

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 point-to-point configuration. PICS: [2] R 7.1R 7.1.

GFP_N7_06_006 clause 7.2.1.1

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_007 clause 7.2.1.1

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_008 clause 7.2.1.1

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_009 clause 7.2.1.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_010 clause 7.2.1.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_011 clause 7.2.1.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_012 clause 7.2.1.1

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 clause 7.2.1.2

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 clause 7.2.1.2

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 clause 7.2.1.2

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_016 clause 7.2.1.2

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_017 clause 7.2.1.2

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_06_018 clause 7.2.1.2

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 a responding entity. PICS: R 5.2.

GFP_N7_07_001 clause 7.2.2.1

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_002 clause 7.2.2.1

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_003 clause 7.2.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_004 clause 7.2.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_005 clause 7.2.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_006 clause 7.2.2.1

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_007 clause 7.2.2.1

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_008 clause 7.2.2.1

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_009 clause 7.2.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_010 clause 7.2.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_011 clause 7.2.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_012 clause 7.2.2.1

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 clause 7.2.2.2, 1st paragraph

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 clause 7.2.2.2, 1st paragraph

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 Call Held auxiliary state.

GFP_N7_07_015 clause 7.2.2.2, 1st paragraph

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 Retrieve Indication auxiliary state.

GFP_N7_07_016 clause 7.2.2.2, 1st paragraph

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 Retrieve Request auxiliary state.

GFP_N7_07_017 clause 7.2.2.2, 2nd paragraph

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 clause 7.2.2.2, 2nd paragraph

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 clause 7.2.2.2, 2nd paragraph

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 clause 7.2.2.2, 2nd paragraph

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 clause 7.2.2.2, 2nd paragraph

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 clause 7.2.2.2, 3rd paragraph

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 clause 7.2.2.2, 3rd paragraph

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 clause 7.2.2.2, 4th paragraph

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 clause 7.2.2.2, 4th paragraph

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 clause 7.2.2.2, 4th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_027 clause 7.2.2.2, 4th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_028 clause 7.2.2.2, 4th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_07_029 clause 7.2.2.2, 4th paragraph

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_001 clause 7.4.1.1, 1st paragraph

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_002 clause 7.4.1.1, 1st paragraph

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_003 clause 7.4.1.1, 1st paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_004 clause 7.4.1.1, 1st paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_005 clause 7.4.1.1, 1st paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_006 clause 7.4.1.1, 1st paragraph

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_007 clause 7.4.1.1, 5th paragraph

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_008 clause 7.4.1.1, 5th paragraph

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_009 clause 7.4.1.1, 5th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_010 clause 7.4.1.1, 5th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_011 clause 7.4.1.1, 5th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_012 clause 7.4.1.1, 5th paragraph

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 clause 7.4.1.2

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 clause 7.4.1.2

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 clause 7.4.1.2

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_016 clause 7.4.1.2

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_017 clause 7.4.1.2

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_08_018 clause 7.4.1.2

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.

6.2.2.2.3.2 Responding entity

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

GFP_N7_09_001 clause 7.4.2.1

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_002 clause 7.4.2.1

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_003 clause 7.4.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_004 clause 7.4.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_005 clause 7.4.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_006 clause 7.4.2.1

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_007 clause 7.4.2.1

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_008 clause 7.4.2.1

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_009 clause 7.4.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_010 clause 7.4.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_011 clause 7.4.2.1

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_012 clause 7.4.2.1

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_013 clause 7.4.2.2, 1st paragraph

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_014 clause 7.4.2.2, 1st paragraph

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_015 clause 7.4.2.2, 1st paragraph

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_016 clause 7.4.2.2, 1st paragraph

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_017 clause 7.4.2.2, 2nd paragraph

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_018 clause 7.4.2.2, 2nd paragraph

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_019 clause 7.4.2.2, 2nd paragraph

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_020 clause 7.4.2.2, 2nd paragraph

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_021 clause 7.4.2.2, 2nd paragraph

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_022 clause 7.4.2.2, 2nd paragraph

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_023 clause 7.4.2.2, 3rd paragraph

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_024 clause 7.4.2.2, 3rd paragraph

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_025 clause 7.4.2.2, 3rd paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_026 clause 7.4.2.2, 3rd paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_027 clause 7.4.2.2, 3rd paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_028 clause 7.4.2.2, 3rd paragraph

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_029 clause 7.4.2.2, 4th paragraph

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_030 clause 7.4.2.2, 4th paragraph

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_031 clause 7.4.2.2, 4th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_032 clause 7.4.2.2, 4th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_033 clause 7.4.2.2, 4th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_034 clause 7.4.2.2, 4th paragraph

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_035 clause 7.4.2.2, 5th paragraph

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_036 clause 7.4.2.2, 5th paragraph

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_037 clause 7.4.2.2, 5th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_038 clause 7.4.2.2, 5th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_039 clause 7.4.2.2, 5th paragraph

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_09_040 clause 7.4.2.2, 5th paragraph

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_001 clause 7.6

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_002 clause 7.6

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_003 clause 7.6

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_10_004 clause 7.6

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_10_005 clause 7.6

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 point-to-point configuration. PICS: [2] R 7.1.

GFP_N7_10_006 clause 7.6

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

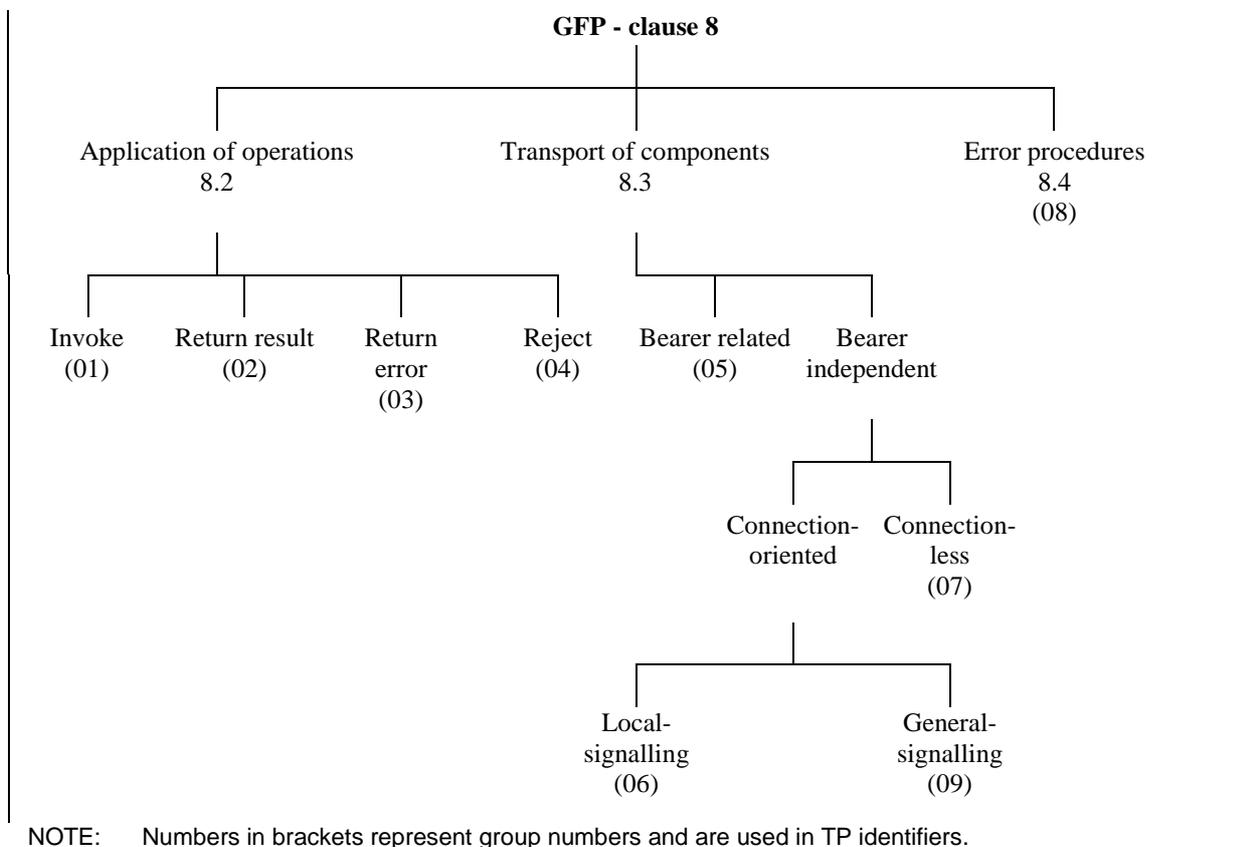


Figure 3: TSS

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 EN. The following steps should be applied for each supplementary service TSS&TP EN:

- combine table 1 with TPs from clause 6.2.3.2.2;
- check supplementary service transport mechanism(s) supported and apply relevant TPs from clause 6.2.3.2.3;
- apply TP from clause 6.2.3.2.4.

6.2.3.2.2 Application of operations (clause 8.2)

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

Transport mechanism	<state> call state	<PDU> message	<CR> call reference	<transport> data link
Bearer related pt-to-pt	N 00, 01, 02, 03,04, 06,07, 08, 09, 10, 11, 12, 19, 25	call control message FACILITY	CR of an existing call	
Bearer related broadcast pt-to-multipt	N 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 for local signalling clause 8.3.2.1	N 00, 19, 31	REGISTER FACILITY (call state 31 only) RELEASE RELEASE COMP STATUS (note) STATUS ENQ*	CR created	via point-to-point data link
Bearer independent Connectionless point-to-point for local signalling clause 8.3.2.2	N any state	FACILITY (I-frame)	dummy CR	via point-to-point data link
Bearer independent Connection oriented broadcast for local signalling	Not specified			
Bearer independent Connectionless broadcast for local signalling	N any state	FACILITY (UI-frame)	dummy CR	via broadcast data link
Bearer independent Connection oriented pt-to-pt for general signalling	N0, N1, N3, N6, N8, N9, N10, N19	FACILITY (I-frame)	CR created	via point-to-point D-link
Bearer independent Connection oriented broadcast for general signalling	Not used			

NOTE: STATUS, STATUS ENQUIRY not used for transportation of components.

6.2.3.2.2.1 Invocation (clause 8.2.2.1)

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

GFP_N8_01_001 clause 8.2.2.1

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_002 clause 8.2.2.1

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 (clause 8.2.2.2)

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

GFP_N8_02_001 clause 8.2.2.2

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_002 clause 8.2.2.2

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 (clause 8.2.2.3)

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

GFP_N8_03_001 clause 8.2.2.3

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_002 clause 8.2.2.3

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 (clause 8.2.2.4)

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

GFP_N8_04_001 clause 8.2.2.4

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_002 clause 8.2.2.4

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_003 clause 8.2.2.4

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 a list of problem codes see EN 300 196-1 [1], table 2 or table D.1.

GFP_N8_04_004 clause 8.2.2.4

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 a list of problem codes see EN 300 196-1 [1], table 2 or table D.1.

6.2.3.2.3 Transport of components (clause 8.3)

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

6.2.3.2.3.1 Bearer related transport (clause 8.3.1)

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

GFP_N8_05_001 clause 8.3.1.1.2

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 (clause 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 (clause 8.3.2.1)

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

GFP_N8_06_001 clause 8.3.2.1.1.1

Ensure that the IUT, in call state N00 in order to establish a connection towards the responder,
 sends a REGISTER message and enters the Bearer independent Transport call state N31.

GFP_N8_06_002 clause 8.3.2.1.1.2

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_003 clause 8.3.2.1.1.2

Ensure that the IUT, in call state N00 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_004 [6] clause 8.3.2.1.1.1 & clause 5.8.3.2 d

Ensure that the IUT, in call state <cstate> and in the <service> <sstate> state receiving a REGISTER message with a call reference not recognized as relating to a call and with the call reference flag set to "1",
 ignores the message.

GFP_N8_06_005 clause 8.3.2.1.2.1

Ensure that the IUT, in call state N31 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_006 clause 8.3.2.1.2.2

Ensure that the IUT, in call state N31 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_007 clause 8.3.2.1.2.2

Ensure that the IUT, in call state N31 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_008 clause 8.3.2.1.3.1

Ensure that the IUT, in call state N31 to clear the connection,
sends a RELEASE message and enters the call state N 19.

GFP_N8_06_009 [6] clause 5.8

Ensure that the IUT in call state N31 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 [6] clause 5.8.3.1

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of a FACILITY message using the dummy call reference,
sends no message.

GFP_N8_06_011 [6] clause 5.8.3.2 a

Ensure that the IUT in call state N31 and in the <service> <sstate> state for CR1, on receipt of a FACILITY message for CR2 which is not recognized as relating to a call,
sends a STATUS message for CR2 with a Cause information element indicating cause value 81 "invalid call reference value" for CR2 and remains in call state N31 and in the <service> <sstate> state for CR1.

GFP_N8_06_012 [6] clause 5.8.3.2 f

Ensure that the IUT in call state N31 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 cause value 81 "invalid call reference value".

GFP_N8_06_013 [6] clause 5.8.4

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of an inopportune message (ALERTING),
sends either a STATUS message with a Cause information element indicating 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 [6] clause 5.8.8

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of a DL-ESTABLISH-INDICATION,
sends no message.

GFP_N8_06_015 [6] clause 5.8.11

Ensure that the IUT in call state N31 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 [6] clause 5.8.1

Ensure that the IUT in call state N31 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 [6] clause 5.8.2

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of a message which is too short,
sends no message.

GFP_N8_06_018 [6] clause 5.8.3.1

Ensure that the IUT in call state N31 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 [6] clause 5.8.3.1

Ensure that the IUT in call state N31 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 [6] clause 5.8.4

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of a message with an unrecognized message type,
sends either a STATUS message with a Cause information element indicating 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 [6] clause 5.8.6.1

Ensure that the IUT in call state N31 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 cause value 96 "mandatory information element missing".

GFP_N8_06_022 [6] clause 5.8.6.2

Ensure that the IUT in call state N31 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 cause value 100 "invalid information element contents".

GFP_N8_06_023 [6] clauses 5.8.7.1, 5.8.6.1

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of a FACILITY message with an unrecognized information element (coded comprehension required),
sends a STATUS message with a Cause information element indicating cause value 96 "mandatory information element missing".

GFP_N8_06_024 [6] clause 5.8.7.1

Ensure that the IUT in call state N31 and in the <service> <sstate> state, on receipt of a FACILITY message with an unrecognized information element (coded comprehension not required),
processes the message as valid and optionally sends a STATUS message with a Cause information element indicating cause value 99 "information element non-existent or not implemented".

GFP_N8_06_025 [6] clause 5.8.7.2

Ensure that the IUT in call state N31 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 cause value 100 "invalid information element contents".

6.2.3.2.3.2.2 Connectionless (clauses 8.3.2.2 and 8.3.2.3)

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

GFP_N8_07_001 clause 8.3.2

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_002 clause 8.3.2

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 sub-address information element.

Selection: IUT supports SUB supplementary service. PIXIT.

GFP_N8_07_003 clauses 8.3.2.2.2 and 8.3.2.4.2

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_004 clauses 8.3.2.2.2 and 8.3.2.4.2

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_005 clauses 8.3.2.2.2 and 8.3.2.4.2

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.

6.2.3.2.3.2.3 Connection-oriented bearer independent general signalling (clause 8.3.2.5)

NOTE: In this clause, "call" is to be interpreted as "bearer independent connection".

Selection: IUT supports the bearer independent connection oriented general signalling. PICS: MCn2.8.

GFP_N8_09_001 clause 8.3.2.5.1.3

Ensure that the IUT, in call state N00 in order to reply to a valid request for a call independent SETUP, sends a CALL PROCEEDING message, enters the Outgoing Call Proceeding state and attempts to establish the NCICS towards the terminating unit.

GFP_N8_09_002 clause 8.3.2.5.1.2

Ensure that the IUT, in call state N 00, in order to reply to an invalid request for a call independent SETUP, sends a RELEASE COMPLETE message, releases the call reference and remains in the Null state.

GFP_N8_09_003 clause 8.3.2.5.1.4

Ensure that the IUT, in call state Outgoing Call Proceeding, and receiving an indication that the NCICS request has been accepted, sends a CONNECT, enters Active state.

NOTE: The base standard gives the option of either entering Active state or starting timer T.313 and entering Connect Request state. However, T313 is not defined for the network. Thus the option is suppressed.

GFP_N8_09_004 clause 8.3.2.5.1.4

Ensure that the IUT, in call state Active state and upon receipt of a CONNECT ACKNOWLEDGE, takes no actions.

GFP_N8_09_005 clause 8.3.2.5.1.4

Ensure that the IUT, in call state Connect Request upon receipt of a CONNECT ACKNOWLEDGE, enters the Active state.

NOTE: The base standard gives the option of either entering Active state or starting timer T.313 and entering Connect Request state. However, T313 is not defined for the network. Thus the option is suppressed.

GFP_N8_09_006 clause 8.3.2.5.1.5

Ensure that the IUT, in call state N03 upon receipt of an indication that the NCICS connection request cannot be accepted, clears the call with the cause provided by the remote terminating network.

GFP_N8_09_007 clause 8.3.2.5.1.4

Ensure that the IUT, in call state N01 in case where timer T313 expires prior to receipt of CONNECT ACKNOWLEDGE message,
initiates clearing with a RELEASE message with cause 102: recovery on timer expiry.

GFP_N8_09_008 clause 8.3.2.5.2.1

Ensure that the IUT, to initiate an NCICS connection establishment,
sends a SETUP message with the proper information elements coding, starts timer T303 and enters the Call Present state.

GFP_N8_09_009 clause 8.3.2.5.2.2

Ensure that the IUT, upon receipt of CALL PROCEEDING in Call Present state,
stops timer T303, enters the Incoming Call Proceeding state and starts timer T310.

GFP_N8_09_010 clause 8.3.2.5.2.3

Ensure that the IUT in state N06, upon receipt of a RELEASE message prior to a CONNECT message, sends a RELEASE COMPLETE message and enters the null state.

NOTE: Clearing towards the originating entity is outside the scope of DSS1 conformance testing.

GFP_N8_09_011 clause 8.3.2.5.2.3

Ensure that the IUT in state N06, upon receipt of a RELEASE COMPLETE message prior to a CONNECT message, enters the null state.

NOTE: Clearing towards the originating entity is outside the scope of DSS1 conformance testing.

GFP_N8_09_012 clause 8.3.2.5.2.3

Ensure that the IUT in state N09, upon receipt of a RELEASE message prior to a CONNECT message, sends a RELEASE message and enters the null state.

NOTE: Clearing towards the originating entity is outside the scope of DSS1 conformance testing.

GFP_N8_09_013 clause 8.3.2.5.2.3

Ensure that the IUT in state N09, upon receipt of a RELEASE COMPLETE message prior to a CONNECT message, enters the null state.

NOTE: Clearing towards the originating entity is outside the scope of DSS1 conformance testing.

GFP_N8_09_014 clause 8.3.2.5.2.4

Ensure that the IUT, not receiving any response to the SETUP message prior to the second expiration of timer T303, initiates clearing towards the terminating entity with cause 102

NOTE: Clearing towards the originating entity is outside the scope of DSS1 conformance testing.

GFP_N8_09_015 clause 8.3.2.5.2.4

Ensure that the IUT, having received a CALL PROCEEDING message, but no CONNECT, RELEASE or RELEASE COMPLETE message prior to expiration of T310,

initiates clearing towards the terminating entity, send a RELEASE message with cause 102 towards the called user.

NOTE: Clearing towards the originating entity is outside the scope of DSS1 conformance testing.

GFP_N8_09_016 clause 8.3.2.5.2.6

Ensure that the IUT, while in state N09, on receipt of a CONNECT message,
stops timers T303 and T301 if running, completes the NCICS connection, sends a CONNECT ACKNOWLEDGE to the user and enters the Active state.

GFP_N8_09_017 clause 8.3.2.5.3.2

Ensure that the IUT, while in state N10, on receipt of a RELEASE message,
sends a RELEASE COMPLETE message, releases the call reference and enters the Null state.

GFP_N8_09_018 clause 8.3.2.5.3.3

Ensure that the IUT, while in state N10, to initiate clearing,
sends a RELEASE message, starts timer T308 and enters the Release Request state.

GFP_N8_09_019 clause 8.3.2.5.3.3

Ensure that the IUT, on receipt of a RELEASE COMPLETE message
stops timer T308, releases the call reference and enters the Null state.

GFP_N8_09_020 clause 8.3.2.5.3.4

Ensure that the IUT, on receipt of a RELEASE message while in the Release Request state stops timer T308, releases the call reference and enters the Null state without sending a RELEASE COMPLETE message.

GFP_N8_09_021 clause 8.3.2.5.4

Ensure that the IUT, on receipt of a RESTART message coded with "all interfaces" or "single interface with D-Channel", releases all NCICS connections.

GFP_N8_09_022 clause 8.3.2.5.6

Ensure that the IUT in NCICS call state N03, on receipt of a message recognized as relating to a call such as DISCONNECT, treats the message as unrecognized or unexpected.

GFP_N8_09_023 clause 8.3.2.5.6

Ensure that the IUT in NCICS call state N06, on receipt of a message recognized as relating to a call such as SETUP ACKNOWLEDGE, treats the message as unrecognized or unexpected.

GFP_N8_09_024 clause 8.3.2.5.6

Ensure that the IUT in NCICS call state N09, on receipt of a message recognized as relating to a call such as ALERTING, treats the message as unrecognized or unexpected.

GFP_N8_09_025 clause 8.3.2.5.6

Ensure that the IUT in NCICS call state N10, on receipt of a message recognized as relating to a call such as SUSPEND, treats the message as unrecognized or unexpected.

6.2.3.2.4 GAT-control (clause 8.3.3.2)

The Test Suite Structure and the Test Purposes for the GAT-Control are contained in EN 301 813-3 [11].

6.2.3.2.5 Error procedures (clause 8.4)

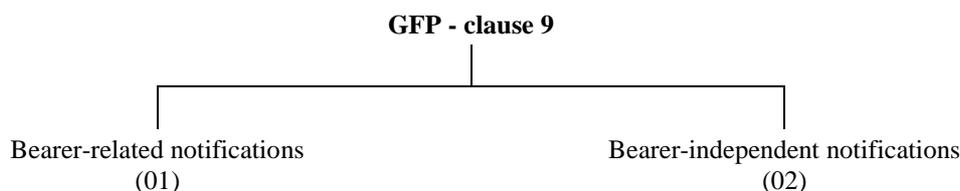
GFP_N8_08_001 clause 8.4.2

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



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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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 clause 9.3.1

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: Clause 9.3.1 of EN 300 196-1 [1] specifies that in the above circumstances "the network shall forward the notification to the other user involved in the call". It is impossible to specify TPs related to the behaviour of the network between two access points in the present document as this is not directly related to the user-network protocol.

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

GFP_N9_01_015 clause 9.3.1

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 clause 9.3.2

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 clause 9.3.2

Ensure that the IUT, in the call state <state>, on receipt of a NOTIFY message where it does not recognize a new code point 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 clause 9.3.2

Ensure that the IUT, in the call state <state>, on receipt of a NOTIFY message where it does not recognize 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 clause 9.3.2

Ensure that the IUT, in the call state <state>, on receipt of a <message> where it does not recognize a new code point 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 clause 9.3.2

Ensure that the IUT, in the call state <state>, on receipt of a <message> where it does not recognize 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: Clause 9.3.2 of EN 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". It is impossible to specify TPs related to the behaviour of the network between two access points in the present document as this is not directly related to the user-network protocol.

6.2.4.2.3 Bearer-independent notifications (clause 9.4)

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

GFP_N9_02_001 clause 9.4.1

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: [2] R 7.1.

GFP_N9_02_002 clause 9.4.1

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: [2] 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 (clause 10.1.1.1)

Channel reserved (01)

Receipt of HOLD ACK (02)

Sending of HOLD ACK (03)

Receipt of RELEASE COMPLETE

Call Held auxiliary state (04)

Retrieve Request auxiliary state (05)

Retrieve Indication auxiliary state (06)

Sending of RELEASE COMPLETE

Call Held auxiliary state (07)

Retrieve Request auxiliary state (08)

Retrieve Indication auxiliary state (09)

Sending of SUSPEND ACK

Call Held auxiliary state (10)

Retrieve Request auxiliary state (11)

Retrieve Indication auxiliary state (12)

Sending of RESTART ACK..... (13)

Receiving of RESTART ACK (14)

Implicit reservation use (clause 10.1.1.2)..... (15)

Implicit reservation cancellation (clause 10.1.1.3)..... (16)

Explicit reservation

Explicit reservation control (clause 10.1.2.1)

Invocation

With reservation indicator (17)

Without reservation indicator (18)

No reservation required (19)

Return error (20)

Explicit reservation management (clause 10.1.2.2)

Absence of invoke (21)

Invoke..... (22)

Return error (23)

Explicit reservation cancellation (clause 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 clause 10.1.1.1, 1st paragraph

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 clause 10.1.1.1, 1st paragraph

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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.

6.2.5.2.1.1.3 Sending of HOLD ACKNOWLEDGE

GFP_N10_03_001 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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 clause 10.1.1.1, 2nd a)

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_005 clause 10.1.1.1, 2nd a)

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_006 clause 10.1.1.1, 2nd a)

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.

6.2.5.2.1.1.4 Receipt of RELEASE COMPLETE

6.2.5.2.1.1.4.1 Call Held auxiliary state

GFP_N10_04_001 clause 10.1.1.1, 2nd b)

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_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd b)

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_004 clause 10.1.1.1, 2nd b)

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_005 clause 10.1.1.1, 2nd b)

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_006 clause 10.1.1.1, 2nd b)

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_007 clause 10.1.1.1, 2nd b)

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_008 clause 10.1.1.1, 2nd b)

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_009 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_04_010 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_04_011 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_04_012 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_04_013 clause 10.1.1.1, 2nd b)

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 clause 10.1.1.1, 2nd b)

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 clause 10.1.1.1, 2nd b)

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.

6.2.5.2.1.1.4.2 Retrieve Request auxiliary state

GFP_N10_05_001 clause 10.1.1.1, 2nd b)

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_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd b)

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_004 clause 10.1.1.1, 2nd b)

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_005 clause 10.1.1.1, 2nd b)

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_006 clause 10.1.1.1, 2nd b)

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_007 clause 10.1.1.1, 2nd b)

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_008 clause 10.1.1.1, 2nd b)

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.

6.2.5.2.1.1.4.3 Retrieve Indication auxiliary state

GFP_N10_06_001 clause 10.1.1.1, 2nd b)

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_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd b)

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_004 clause 10.1.1.1, 2nd b)

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_005 clause 10.1.1.1, 2nd b)

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_006 clause 10.1.1.1, 2nd b)

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_007 clause 10.1.1.1, 2nd b)

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_008 clause 10.1.1.1, 2nd b)

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_001 clause 10.1.1.1, 2nd b)

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_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd b)

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_004 clause 10.1.1.1, 2nd b)

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_005 clause 10.1.1.1, 2nd b)

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_006 clause 10.1.1.1, 2nd b)

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_007 clause 10.1.1.1, 2nd b)

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_008 clause 10.1.1.1, 2nd b)

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_009 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_07_010 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_07_011 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_07_012 clause 10.1.1.1, 2nd b)

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: [2] R 7.1.

GFP_N10_07_013 clause 10.1.1.1, 2nd b)

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 clause 10.1.1.1, 2nd b)

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 clause 10.1.1.1, 2nd b)

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_001 clause 10.1.1.1, 2nd b)

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 RELEASE COMPLETE for call 1, creates a reservation against that CEI.

GFP_N10_08_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd b)

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_004 clause 10.1.1.1, 2nd b)

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_005 clause 10.1.1.1, 2nd b)

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_006 clause 10.1.1.1, 2nd b)

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_007 clause 10.1.1.1, 2nd b)

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_008 clause 10.1.1.1, 2nd b)

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_001 clause 10.1.1.1, 2nd b)

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_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd b)

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_004 clause 10.1.1.1, 2nd b)

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_005 clause 10.1.1.1, 2nd b)

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_006 clause 10.1.1.1, 2nd b)

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_007 clause 10.1.1.1, 2nd b)

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_008 clause 10.1.1.1, 2nd b)

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_001 clause 10.1.1.1, 2nd c)

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_002 clause 10.1.1.1, 2nd c)

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_003 clause 10.1.1.1, 2nd c)

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_004 clause 10.1.1.1, 2nd c)

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_005 clause 10.1.1.1, 2nd c)

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_006 clause 10.1.1.1, 2nd c)

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_007 clause 10.1.1.1, 2nd c)

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_008 clause 10.1.1.1, 2nd c)

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_009 clause 10.1.1.1, 2nd c)

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: [2] R 7.1.

GFP_N10_10_010 clause 10.1.1.1, 2nd c)

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: [2] R 7.1.

GFP_N10_10_011 clause 10.1.1.1, 2nd c)

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: [2] R 7.1.

GFP_N10_10_012 clause 10.1.1.1, 2nd c)

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 clause 10.1.1.1, 2nd c)

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 clause 10.1.1.1, 2nd c)

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 clause 10.1.1.1, 2nd c)

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_001 clause 10.1.1.1, 2nd c)

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_002 clause 10.1.1.1, 2nd b)

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_003 clause 10.1.1.1, 2nd c)

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_004 clause 10.1.1.1, 2nd c)

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_005 clause 10.1.1.1, 2nd c)

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_006 clause 10.1.1.1, 2nd c)

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_007 clause 10.1.1.1, 2nd c)

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_008 clause 10.1.1.1, 2nd c)

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_001 clause 10.1.1.1, 2nd c)

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_002 clause 10.1.1.1, 2nd c)

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_003 clause 10.1.1.1, 2nd c)

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_004 clause 10.1.1.1, 2nd c)

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_005 clause 10.1.1.1, 2nd c)

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_006 clause 10.1.1.1, 2nd c)

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_007 clause 10.1.1.1, 2nd c)

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_008 clause 10.1.1.1, 2nd c)

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.

6.2.5.2.1.1.7 Sending of RESTART ACKNOWLEDGE

GFP_N10_13_001 clause 10.1.1.1, 2nd d)

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_002 clause 10.1.1.1, 2nd d)

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_003 clause 10.1.1.1, 2nd d)

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).

6.2.5.2.1.1.8 Receipt of RESTART ACKNOWLEDGE

GFP_N10_14_001 clause 10.1.1.1, 2nd d)

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_002 clause 10.1.1.1, 2nd d)

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_003 clause 10.1.1.1, 2nd d)

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_001 clause 10.1.1.2

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_002 clause 10.1.1.2

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_003 clause 10.1.1.2

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_004 clause 10.1.1.2

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_005 clause 10.1.1.2

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_006 clause 10.1.1.2

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_007 clause 10.1.1.2

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: [2] R 7.1.

GFP_N10_15_008 clause 10.1.1.2

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: [2] R 7.1.

GFP_N10_15_009 clause 10.1.1.2

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: [2] R 7.1.

GFP_N10_15_010 clause 10.1.1.2

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: [2] R 7.1.

6.2.5.2.1.1.3 Implicit reservation cancellation

GFP_N10_16_001 clause 10.1.1.3

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_002 clause 10.1.1.3

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_003 clause 10.1.1.3

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_004 clause 10.1.1.3

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_005 clause 10.1.1.3

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_006 clause 10.1.1.3

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_007 clause 10.1.1.3

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_008 clause 10.1.1.3

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_009 clause 10.1.1.3

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 clause 10.1.1.3

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 clause 10.1.1.3

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 clause 10.1.1.3

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_001 clause 10.1.2.1

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_002 clause 10.1.2.1

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_003 clause 10.1.2.1

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_004 clause 10.1.2.1

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_001 clause 10.1.2.1

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_002 clause 10.1.2.1

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_003 clause 10.1.2.1

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_004 clause 10.1.2.1

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_005 clause 10.1.2.1

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_006 clause 10.1.2.1

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_007 clause 10.1.2.1

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_008 clause 10.1.2.1

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_009 clause 10.1.2.1

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 clause 10.1.2.1

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 clause 10.1.2.1

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 clause 10.1.2.1

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 clause 10.1.2.1

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 clause 10.1.2.1

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 clause 10.1.2.1

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 clause 10.1.2.1

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_001 clause 10.1.2.1

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_002 clause 10.1.2.1

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_003 clause 10.1.2.1

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_004 clause 10.1.2.1

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_001 clause 10.1.2.1

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_002 clause 10.1.2.1

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_003 clause 10.1.2.1

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_004 clause 10.1.2.1

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_001 clause 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_002 clause 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_003 clause 10.1.2.2, 2nd paragraph

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_001 clause 10.1.2.2, 4th paragraph

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_002 clause 10.1.2.2, 4th paragraph

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_003 clause 10.1.2.2, 4th paragraph

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_004 clause 10.1.2.2, 4th paragraph

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_001 clause 10.1.2.2, 5th paragraph

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_002 clause 10.1.2.2, 5th paragraph

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_003 clause 10.1.2.2, 5th paragraph

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_004 clause 10.1.2.2, 5th paragraph

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_005 clause 10.1.2.2, 5th paragraph

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_001 clause 10.1.2.3, 2nd paragraph

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_002 clause 10.1.2.3, 2nd paragraph

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_003 clause 10.1.2.3, 2nd paragraph

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_004 clause 10.1.2.3, 2nd paragraph

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_001 clause 10.1.2.3, 4th paragraph

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_002 clause 10.1.2.3, 4th paragraph

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_003 clause 10.1.2.3, 4th paragraph

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_004 clause 10.1.2.3, 4th paragraph

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_001 clause 10.1.2.3, 6th paragraph

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_002 clause 10.1.2.3, 6th paragraph

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_003 clause 10.1.2.3, 6th paragraph

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_004 clause 10.1.2.3, 6th paragraph

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_005 clause 10.1.2.3, 6th paragraph

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_006 clause 10.1.2.3, 6th paragraph

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_007 clause 10.1.2.3, 6th paragraph

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 clauses, and defined in clause 10.2.6 of EN 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_001 clause 10.2.2.1, 2nd paragraph

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_002 clause 10.2.2.2, 1st paragraph

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_003 clause 10.2.2.2, 5th paragraph

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_004 clause 10.2.2.2, 6th paragraph

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_001 clause 10.2.3.1, 2nd paragraph

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_002 clause 10.2.3.2, 1st paragraph

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_003 clause 10.2.3.2, 5th paragraph

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_004 clause 10.2.3.2, 6th paragraph

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_001 clause 10.2.4.1, 2nd paragraph

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_002 clause 10.2.4.1, 2nd paragraph

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_003 clause 10.2.4.2, 1st paragraph

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_004 clause 10.2.4.2, 5th paragraph

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_005 clause 10.2.4.2, 6th paragraph

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_001 clause 10.3.2, 2nd paragraph

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_002 clause 10.3.2, 20th paragraph a)

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: [2] MC 2.5.

GFP_N10_30_003 clause 10.3.2, 20th paragraph a)

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: [2] R 7.1.

GFP_N10_30_004 clause 10.3.3, 1st paragraph

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: [2] MC 2.5.

GFP_N10_30_005 clause 10.3.3, 1st paragraph

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.

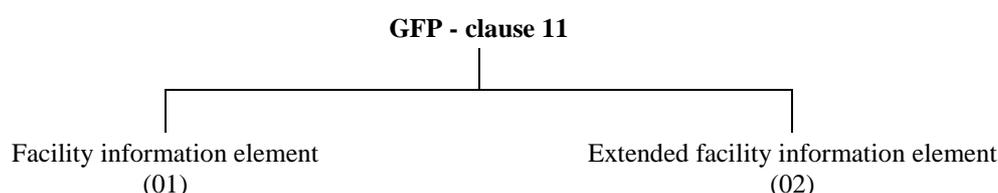
Selection: IUT supports point-to-point configuration. PICS: [2] R 7.1.

GFP_N10_30_006 clause 10.3.4

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



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_001 clause 11.2.2.1

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 ITU-T Recommendation X.209 [9] or ITU-T
Recommendation X.690 [10].

GFP_N11_01_002 clause 11.2.2.1

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 ITU-T Recommendation X.209 [9] or
ITU-T Recommendation X.690 [10] 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_001 clause 11.2.2.4

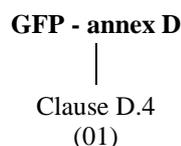
Ensure that the IUT, while in the <call state>, to send one or more components to control a supplementary service
where these components would be too long to be included in a Facility information element,
sends a <message (possibly segmented)> containing an Extended facility information element with one or more
components encoded according to the BER as specified in ITU-T Recommendation X.209 [9] or ITU-T
Recommendation X.690 [10].

GFP_N11_02_002 clause 11.2.2.4

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 ITU-T
Recommendation X.209 [9] or ITU-T Recommendation X.690 [10] 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



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_001 clause D.4

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.

6.2.8 TSS&TP for annex E

Clause 6.2.7 applies replacing Annex D by Annex E.

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 EN 300 196-1 [1].

History

Document history		
Edition 1	January 1997	Publication as ETS 300 196-5
V1.2.1	July 2001	One-step Approval Procedure OAP 20011109: 2001-07-11 to 2001-11-09
V1.2.1	November 2001	Publication