



EUROPEAN
TELECOMMUNICATION
STANDARD

DRAFT
pr **ETS 300 141-5**

October 1995

Source: ETSI TC-SPS

Reference: DE/SPS-05061-S-5

ICS: 33.080

Key words: ISDN, DSS1, supplementary service, TSS&TP

**Integrated Services Digital Network (ISDN);
Call Hold (HOLD) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 5: Test Suite Structure and Test Purposes (TSS&TP)
specification for the network**

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Foreword

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

This ETS is part 5 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Call Hold (HOLD) supplementary service, as described below:

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

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

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1 Scope

This fifth part of ETS 300 141 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 [7]) of implementations conforming to the stage three standard for Call Hold (HOLD) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of Digital Subscriber Signalling System No. one (DSS1) protocol.

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial PIXIT proforma based on this ETS. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to ETS 300 141-1 [1].

2 Normative references

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

- [1] ETS 300 141-1 (1993): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

NOTE: ETS 300 141-1 (1993) was initially published as ETS 300 141 (1993).

- [2] ETS 300 141-2: "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

- [3] ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".

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

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

- [6] ETS 300 196-1 (1993): "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

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

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

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

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

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

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

3 Definitions

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

3.1 Definitions related to conformance testing

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3.2 Definitions related to ETS 300 141-1

Call Held auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

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

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

Hold Requested auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

Idle auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

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

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

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

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

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

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

Retrieve Requested auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

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

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

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

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

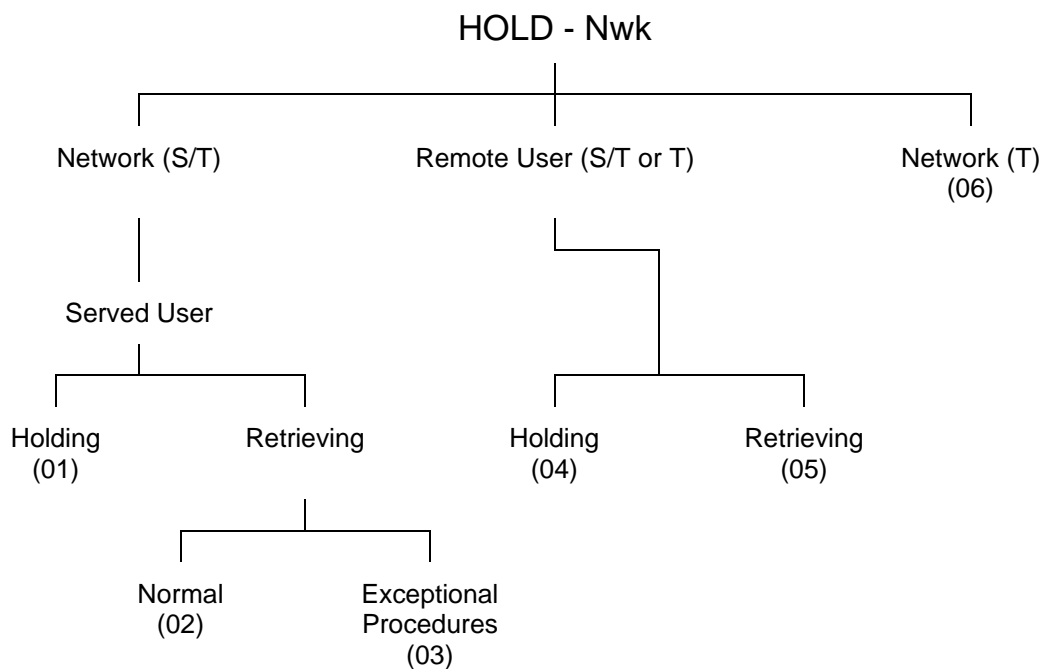
supplementary service: See CCITT Recommendation I.210 [11], subclause 2.4.

4 Abbreviations

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

HOLD	Call Hold
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
N00	Null Call state
N02	Overlap Sending Call state
N03	Outgoing Call Proceeding Call state
N04	Call Delivered Call state
N06	Call Present 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
TSS	Test Suite Structure
TP	Test Purpose

5 Test Suite Structure (TSS)



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

Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a Test Purpose (TP) is defined.

6.1.1 Test purpose (TP) naming convention

Test Purposes are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual Test Suite and whether it applies to the Network or the User side (see table 1).

Table 1: TP Identifier naming convention scheme

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

6.1.2 Source of test purpose definition

The test purposes were developed based on ETS 300 141-1 [1], clauses 9, 10 and 14.

6.1.3 Test purpose 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 Test Purpose for HOLD

TP Part	Text	Example
Header	<Identifier> <i>tab</i> <paragraph number in base ETS> <i>tab</i> <type of test> <i>tab</i> <condition> <i>CR</i> .	see table 1 subclause 0.0.0 valid, invalid, inopportune mandatory, optional, conditional
Stimulus	Ensure that the IUT in the <basic call state> and <supplementary service state> <trigger> <i>see below for message structure</i> <i>or</i> <goal>	N00, N10, etc. and Hold Requested,... 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>, <i>etc.</i> and remains in the same state <i>or</i> and enters state <state>	sends, saves, does, etc. using en bloc sending, ...
Message structure	<message type> message containing a <i>a)</i> <info element> information element with <i>b)</i> a <field name> encoded as <i>or</i> 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 contained no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and PICS. The criteria applied included the following:

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

6.2 Network side Test Purposes for HOLD

All PICS items referred to in this subclause are as specified in ETS 300 141-2 [2] unless indicated otherwise by another numbered reference. Where not stated otherwise PICS item R 1 ("support the HOLD supplementary service") is required to be supported.

6.2.1 Network (S/T)

Selection: IUT supports combined S & T reference point procedures. PICS: R 3.1.

6.2.1.1 Served User

6.2.1.1.1 Holding

HOLD_N01_001 **subclause 9.1.1, 2nd paragraph** **valid optional**

Ensure that the IUT while, in the Call Delivered call state N04 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD ACKNOWLEDGE and enters the Call Held auxiliary state.

Selection: IUT supports the holding of a call in the Call Delivered state. PICS: MC 3.2.

HOLD_N01_002 **subclause 9.1.1, 2nd paragraph** **valid mandatory**

Ensure that the IUT while, in the Active call state N10 and Idle auxiliary state, receiving a HOLD message, sends a HOLD ACKNOWLEDGE and enters the Call Held auxiliary state.

HOLD_N01_003 **subclause 9.1.2** **valid optional**

Ensure that the IUT while, in the Call Delivered call state N04 and Idle auxiliary state, receiving a HOLD message when the HOLD supplementary service is not subscribed to,

sends a HOLD REJECT message cause #50 "requested facility not subscribed" and remains in the Idle auxiliary state.

Selection: IUT supports the holding of a call in the Call Delivered state. PICS: MC 3.2.

Selection: IUT supports provision of the service on a subscription basis.

HOLD_N01_004 **subclause 9.1.2** **valid optional**

Ensure that the IUT while, in the Active call state N10 and Idle auxiliary state, receiving a HOLD message when the HOLD supplementary service is not subscribed to,

sends a HOLD REJECT message cause #50 "requested facility not subscribed" and remains in the Idle auxiliary state.

Selection: IUT supports provision of the service on a subscription basis.

HOLD_N01_005 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Null call state N00 and Idle auxiliary state, receiving a HOLD message, sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_006 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Overlap Sending call state N02 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_007 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Outgoing Call Proceeding call state N03 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_008 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Call Present call state N06 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_009 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Call Received call state N07 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_010 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Connect Request call state N08 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_011 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Incoming Call Proceeding call state N09 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_012 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Disconnect Indication call state N12 and Idle auxiliary state, receiving a HOLD message,

does not respond and remains in the Idle auxiliary state.

HOLD_N01_013 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Release Request call state N19 and Idle auxiliary state, receiving a HOLD message,

does not respond and remains in the Idle auxiliary state.

HOLD_N01_014 **subclause 9.1.2** **inopportune** **mandatory**

Ensure that the IUT, while in the Overlap Receiving call state N25 and Idle auxiliary state, receiving a HOLD message,

sends a HOLD REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N01_015 **subclause 9.1.2** **invalid** **mandatory**

Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state, receiving a HOLD message with a call reference which identifies a call which is not a circuit mode call,

sends a HOLD REJECT message cause #57 "bearer capability not authorized" and remains in the Idle auxiliary state.

HOLD_N01_016 **subclause 9.1.2** **invalid** **optional**

Ensure that the IUT while, in the Call Delivered call state N04 and Idle auxiliary state, receiving a HOLD message when the network does not support the HOLD supplementary service,

sends a HOLD REJECT message cause #69 "requested facility not implemented" and remains in the Idle auxiliary state.

Selection: IUT does not support the HOLD supplementary service. PICS: NOT R 1.

HOLD_N01_017 **subclause 9.1.2** **invalid** **mandatory**

Ensure that the IUT, while, in the Active call state N10 and Idle auxiliary state, receiving a HOLD message when the network does not support the HOLD supplementary service,

sends a HOLD REJECT message cause #69 "requested facility not implemented" and remains in the Idle auxiliary state.

Selection: IUT does not support the HOLD supplementary service. PICS: NOT R 1.

6.2.1.1.2 **Retrieving****6.2.1.1.2.1** **Normal****HOLD_N02_001** **subclause 9.3.1** **valid** **mandatory**

Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state, receiving a RETRIEVE message,

sends a RETRIEVE ACKNOWLEDGE and enters the Idle auxiliary state.

HOLD_N02_002 subclause 9.3.1 valid optional

Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state, receiving a RETRIEVE message,

sends a RETRIEVE ACKNOWLEDGE and enters the Idle auxiliary state.

Selection: IUT supports the holding of a call in the Call Delivered state. PICS: MC 3.2.

6.2.1.1.2.2 Exceptional Procedures**HOLD_N03_001 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 valid mandatory**

Ensure that the IUT, while in the Active call state N10 and Idle auxiliary state, receiving a RETRIEVE, sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N03_002 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 valid optional

Ensure that the IUT, while in the Call Delivered call state N04 and Call Held auxiliary state, receiving a RETRIEVE message with a Channel Identification information element indicating "B1 channel exclusive" where B1 is not available,

sends a RETRIEVE REJECT message cause #44 "requested circuit/channel not available" and remains in the Call Held auxiliary state.

Selection: IUT supports the holding of a call in the Call Delivered state. PICS: MC 3.2.

HOLD_N03_003 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 valid mandatory

Ensure that the IUT, while in the Active call state N10 and Call Held auxiliary state, receiving a RETRIEVE message with a Channel Identification information element indicating "B1 channel exclusive" where B1 is not available,

sends a RETRIEVE REJECT message cause #44 "requested circuit/channel not available" and remains in the Call Held auxiliary state.

HOLD_N03_004 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 inopportune mandatory

Ensure that the IUT, while in the Null call state N00, receiving a RETRIEVE message,

sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N03_005 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 inopportune mandatory

Ensure that the IUT, while in the Overlap Sending call state N02, receiving a RETRIEVE message,

sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N03_006 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 inopportune mandatory

Ensure that the IUT, while in the Outgoing Call Proceeding call state N03, receiving a RETRIEVE message,

sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N03_007 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 inopportune mandatory

Ensure that the IUT, while in the Call Present call state N06, receiving a RETRIEVE message,

sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

HOLD_N03_008 subclause 9.3.2 & ETS 300 196-1 subclause 7.4.2.2 inopportune mandatory

Ensure that the IUT, while in the Call Received call state N07, receiving a RETRIEVE message,

sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state.

6.2.3 Network (T)

Selection: IUT supports T Reference Point procedures. PICS R 3.2.

HOLD_N06_001 subclause 10.1.1, 1st paragraph valid mandatory

Ensure that the IUT, while in the Call Delivered call state N04, receiving a NOTIFY message with Notification Indicator information element coded as "remote hold", accepts the message and remains in the same state.

HOLD_N06_002 subclause 10.1.1, 1st paragraph valid mandatory

Ensure that the IUT, while in the Active call state N10, receiving a NOTIFY message with Notification Indicator information element coded as "remote hold", accepts the message and remains in the same state.

HOLD_N06_003 subclause 10.1.1, 1st paragraph valid mandatory

Ensure that the IUT, while in the Call Delivered call state N04, receiving a NOTIFY message with Notification Indicator information element coded as "remote retrieval", accepts the message and remains in the same state.

HOLD_N06_004 subclause 10.1.1, 1st paragraph valid mandatory

Ensure that the IUT, while in the Active call state N10, receiving a NOTIFY message with Notification Indicator information element coded as "remote retrieval", accepts the message and remains in the same state.

HOLD_N06_005 subclause 10.1.2, 1st paragraph invalid optional

Ensure that the IUT, while in the Call Delivered call state N04 receiving a HOLD message, sends either a STATUS message cause #97 "message type non-existent or not implemented", #98 "message not compatible with call state or messages TYPE NON-EXISTENT OR NOT IMPLEMENTED" or #101 "message not compatible with call state", or a STATUS ENQUIRY message and remains in the same state.

Selection: HOLD and RETRIEVE messages are not implemented by the network.
PICS: NOT R 1.

HOLD_N06_006 subclause 10.1.2, 1st paragraph invalid optional

Ensure that the IUT, while in the Call Delivered call state N04 receiving a RETRIEVE message, sends either a STATUS message cause #97 "message type non-existent or not implemented", #98 "message not compatible with call state or messages TYPE NON-EXISTENT OR NOT IMPLEMENTED" or #101 "message not compatible with call state", or a STATUS ENQUIRY message and remains in the same state.

Selection: HOLD and RETRIEVE messages are not implemented by the network.
PICS: NOT R 1.

HOLD_N06_007 subclause 10.1.2, 1st paragraph invalid optional

Ensure that the IUT, while in the Active call state N10 receiving a HOLD message, sends either a STATUS message cause #97 "message type non-existent or not implemented", #98 "message not compatible with call state or messages TYPE NON-EXISTENT OR NOT IMPLEMENTED" or #101 "message not compatible with call state", or a STATUS ENQUIRY message and remains in the same state.

Selection: HOLD and RETRIEVE messages are not implemented by the network.
PICS: NOT R 1.

HOLD_N06_008 subclause 10.1.2, 1st paragraph invalid optional

Ensure that the IUT, while in the Active call state N10 receiving a RETRIEVE message, sends either a STATUS message cause #97 "message type non-existent or not implemented", #98 "message not compatible with call state or messages TYPE NON-EXISTENT OR NOT IMPLEMENTED" or #101 "message not compatible with call state", or a STATUS ENQUIRY message and remains in the same state.

Selection: HOLD and RETRIEVE messages are not implemented by the network.
PICS: NOT R 1.

HOLD_N06_009 **subclause 10.1.2, 2nd paragraph** **invalid** **mandatory**

Ensure that the IUT, while in the Call Delivered call state N04, receiving a HOLD message, sends a HOLD REJECT message cause #29 "facility rejected" and remains in the same state.

HOLD_N06_010 **subclause 10.1.2, 2nd paragraph** **invalid** **mandatory**

Ensure that the IUT, while in the Active call state N10, receiving a HOLD message sends a HOLD REJECT message cause #29 "facility rejected" and remains in the same state.

HOLD_N06_011 **subclause 10.1.2, 2nd paragraph** **invalid** **mandatory**

Ensure that the IUT, while in the Call Delivered call state N04, receiving a RETRIEVE message, sends a RETRIEVE REJECT message cause #29 "facility rejected" and remains in the same state.

HOLD_N06_012 **subclause 10.1.2, 2nd paragraph** **invalid** **mandatory**

Ensure that the IUT, while in the Active call state N10, receiving a RETRIEVE message, sends a RETRIEVE REJECT message cause #29 "facility rejected" and remains in the same state.

History

Document history	
October 1995	Public Enquiry PE 94: 1995-10-23 to 1996-02-16
June 1996	Converted into Adobe Acrobat Portable Document Format (PDF)