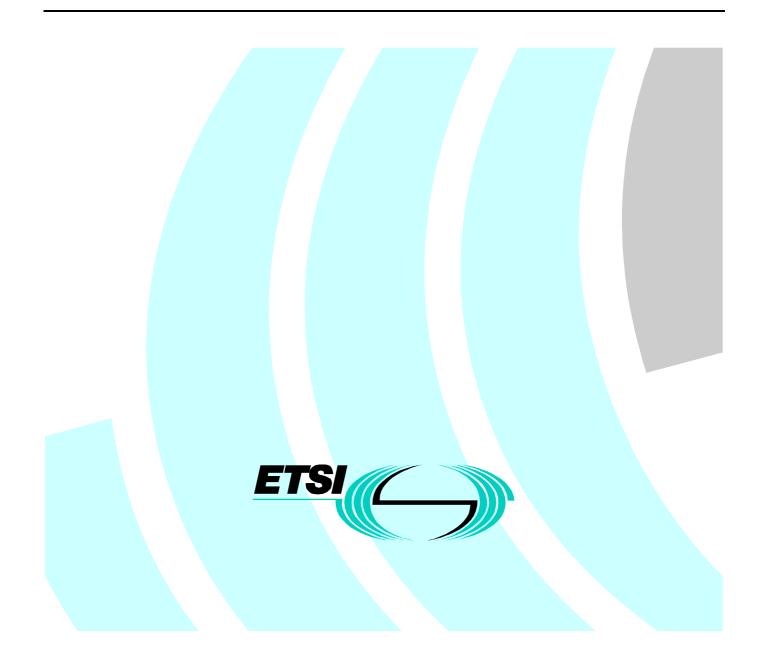
EN 300 141-5 V1.2.4 (1998-06)

European Standard (Telecommunications series)

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



Reference

2

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Keywords

ISDN, DSS1, supplementary service, HOLD, testing, TSS&TP, network

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document 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: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

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

National transposition dates					
Date of adoption of this EN:	19 June 1998				
Date of latest announcement of this EN (doa):	30 September 1998				
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 1999				
Date of withdrawal of any conflicting National Standard (dow):	31 March 1999				

1 Scope

This fifth part of EN 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 the Call Hold (HOLD) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 141-1 [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 300 141-1 [1].

2 Normative references

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1]	EN 300 141-1 (V1.2): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[2]	EN 300 141-2 (V1.2): "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]	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".
[7]	ITU-Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
[8]	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]".
[9]	ITU-Recommendation I.112: "Vocabulary and terms for ISDNs".
[10]	CCITT Recommendation E.164: "Numbering plan for the ISDN era".

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

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3 Definitions

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

3.1 Definitions related to conformance testing

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

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

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

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

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

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

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

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

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

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

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

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

3.2 Definitions related to EN 300 141-1

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

call reference: See EN 300 403-1 [8], subclause 4.3.

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

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

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

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

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

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

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

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

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

return result component: See EN 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.

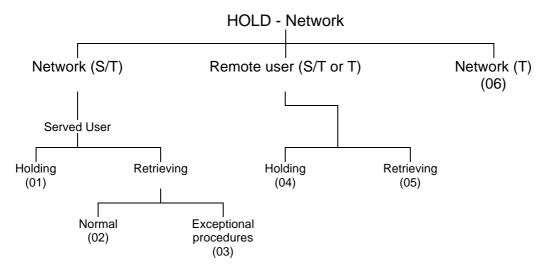
4 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
DSS1	Digital Subscriber Signalling System No. one
HOLD	Call Hold
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
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
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure



Test Suite Structure (TSS)



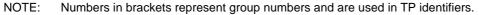


Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

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

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Table 1: TP identifier	naming conv	vention scheme
------------------------	-------------	----------------

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

6.1.2 Source of TP definition

The TPs are based on EN 300 141-1 [1], clauses 9, 10 and 14.

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.

TP part	Text	Example			
Header	<identifier> tab</identifier>	see table 1			
	<paragraph base="" ets="" in="" number=""> tab</paragraph>	subclause 0.0.0			
	<type of="" test=""> tab</type>	valid, invalid, inopportune			
	<condition> CR.</condition>	mandatory, optional, conditional			
Stimulus	Ensure that the IUT in the				
	<basic call="" state=""></basic>	N00, N10, etc.			
	and <supplementary service="" state=""></supplementary>	Hold Requested,			
	<trigger> see below for message structure</trigger>	receiving a XXXX message			
	<i>or</i> <goal></goal>	to request a			
Reaction	<action></action>	sends, saves, does, etc.			
	<conditions></conditions>	using en-bloc sending,			
	if the action is sending				
	see below for message structure				
	<next action="">, etc.</next>				
	and remains in the same state				
	or and enters state <state></state>				
Message	<message type=""></message>	SETUP, FACILITY, CONNECT,			
structure	message containing a				
	a) <info element=""></info>	Bearer capability, Facility,			
	information element with				
	<i>b)</i> a <field name=""></field>				
	encoded as <i>or</i> including				
	<coding field="" of="" the=""> and back to a or b,</coding>				
NOTE: Te	NOTE: Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one				
TF	P to the next.				

Table 2: Structure of a single TP

6.1.4 Test strategy

As the base standard EN 300 141-1 [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 300 141-2 [2]. The criteria applied include the following:

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

6.2 Network TPs for HOLD

All PICS items referred to in this subclause are as specified in EN 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 coincident S and T reference point procedures. PICS: R 3.1.

6.2.1.1 Served User

6.2.1.1.1 Holding

HOLD_N01_001subclause 9.1.1, 2nd paragraphvalidoptionalEnsure that the IUT 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.optional

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

mandatory

optional

mandatory

mandatory

mandatory

mandatory

mandatory

mandatory

mandatory

mandatory

HOLD N01 002 subclause 9.1.1, 2nd paragraph valid

Ensure that the IUT 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

Ensure that the IUT 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.

valid

valid

inopportune

inopportune

inopportune

Selection: IUT supports the holding of a call in the Call Delivered call state. PICS: MC 3.2. Selection: IUT supports provision of the service on a subscription basis.

HOLD N01 004 subclause 9.1.2

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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

Ensure that the IUT 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 Ensure that the IUT 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.

optional

inopportune

inopportune

inopportune

inopportune

mandatory

inopportune

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mandatory

optional

mandatory

HOLD N01 014 subclause 9.1.2 inopportune

Ensure that the IUT 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.

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HOLD N01 015 subclause 9.1.2 invalid

Ensure that the IUT 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.

invalid

invalid

HOLD_N01_016 subclause 9.1.2

Ensure that the IUT 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

Ensure that the IUT 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 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 optional valid Ensure that the IUT 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 call state. PICS: MC 3.2.

6.2.1.1.2.2 **Exceptional Procedures**

HOLD_N03_001 subclauses 9.3.2 & [6] 7.4.2.2 valid mandatory Ensure that the IUT 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 subclauses 9.3.2 & [6] 7.4.2.2 valid optional Ensure that the IUT 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 call state. PICS: MC 3.2.

HOLD_N03_003 subclauses 9.3.2 & [6] 7.4.2.2 valid mandatory Ensure that the IUT 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.

mandatory

HOLD N03 004 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT 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 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT 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 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT 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 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT 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 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT 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. HOLD N03 009 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT in the Connect Request call state N08, 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 010 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT in the Incoming Call Proceeding call state N09, 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 011 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT in the Disconnect Indication call state N12, 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 012 subclauses 9.3.2 & [6] 7.4.2.2 inopportune mandatory Ensure that the IUT in the Overlap Receiving call state N25, receiving a RETRIEVE message, sends a RETRIEVE REJECT message cause #101 "message not compatible with call state" and remains in the Idle auxiliary state. 6.2.2 Remote user NOTE: This group of TPs are relevant for both the coincident S and T reference point and the T reference point. 6.2.2.1 Holding HOLD_N04_001 subclauses 9.2.1 & 10.2.1 valid mandatory Ensure that the IUT in the Active call state N10, to notify the non-served user that the call is held, sends a NOTIFY or FACILITY message with a notification indicator coded as "remote hold" and remains in the Active call state.

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HOLD_N04_002subclauses 9.2.1 & 10.2.1validoptionalEnsure that the IUT in the Call Received call state N07, to notify the non-served user that the call is held,
sends a NOTIFY or FACILITY message with a notification indicator coded as "remote hold" and remains in the
Call Received call state.

Selection: IUT supports the holding of a call in the Call Delivered call state (served user side). PICS MC 3.2.

6.2.2.2 Retrieving

HOLD_N05_001 subclauses 9.4.1 & 10.2.1 invalid optional

Ensure that the IUT in the Call Received call state N07, to notify the non-served user that the call has been retrieved, sends a NOTIFY or FACILITY message with a notification indicator coded as "remote retrieval" and remains in the Call Received call state.

Selection: IUT supports the holding of a call in the Call Delivered call state (served user side). PICS MC 3.2.

HOLD_N05_002 subclauses 9.4.1 & 10.2.1 valid mandatory

Ensure that the IUT in the Active call state N10, to notify the non-served user that the call has been retrieved, sends a NOTIFY or FACILITY message with a notification indicator coded as "remote retrieval" and remains in the Active call 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 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 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 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 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. subclause 10.1.2, 1st paragraph invalid optional HOLD N06 005 Ensure that the IUT 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 message 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 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 message 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

Ensure that the IUT 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 message 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.

invalid

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

optional

HOLD_N06_008 subclause 10.1.2, 1st paragraph Ensure that the IUT in the Active call state N10 receiving a RET sends either a STATUS message cause #97 "message typ compatible with call state or message type non-existent o with call state", or a STATUS ENQUIRY message and re	e non-existent or not im or not implemented" or #	101 "message not compatib
Selection: HOLD and RETRIEVE messages are not impleme	ented by the network. Pl	ICS: NOT R 1.
HOLD_N06_009 subclause 10.1.2, 2nd paragraph Ensure that the IUT in the Call Delivered call state N04, receiving sends a HOLD REJECT message cause #29 "facility rejection"	0	mandatory
HOLD_N06_010 subclause 10.1.2, 2nd paragraph Ensure that the IUT in the Active call state N10, receiving a HOL sends a HOLD REJECT message cause #29 "facility reje	6	mandatory
HOLD_N06_011 subclause 10.1.2, 2nd paragraph Ensure that the IUT in the Call Delivered call state N04, receivin sends a RETRIEVE REJECT message cause #29 "facility	0	
HOLD_N06_012 subclause 10.1.2, 2nd paragraph Ensure that the IUT in the Active call state N10, receiving a RET sends a RETRIEVE REJECT message cause #29 "facility	6	mandatory

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.

Requirements for a comprehensive testing service 8

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 300 141-1 [1].

subclause 10.1.2. 1st paragraph invalid

Annex A (informative): Changes with respect to the previous ETS 300 141-5

The following changes have been done:

- conversion to EN layout;
- replacement of references to ETS 300 102 with EN 300 403;
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

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History

Document history						
Edition 1	October 1996	Publication as ETS 300 141-5				
V1.2.3	February 1998	One-step Approval Procedure	OAP 9824:	1998-02-13 to 1998-06-12		
V1.2.4	June 1998	Publication				