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Digital Enhanced Cordless Telecommunications (DECT);
Common Interface (CI) Test Case Library (TCL);
Part 7: Abstract Test Suite (ATS) for Network (NWK) layer Portable radio Termination (PT)

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Foreword

This second edition European Telecommunication Standard (ETS) has been produced by the Digital Enhanced Cordless Telecommunications (DECT) Project of the European Telecommunications Standards Institute (ETSI).

This ETS comprises nine parts, as follows:

Part 1:	"Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC)
	laver":

Part 2:	"Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Portable radio
	Termination (PT)";

Part 3:	"Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Fixed radio Termination
	(FT)";

Part 4:	"Test Suite Structure	(TSS) and Test Pu	rposes (TP) - Data Link Control	(DLC) laver":
i uit Ti	1 Cot Odito Ottactare	(100) and 10st i	11 22224	, Data Link Control	(DEO) layer,

Part 5:	"Abstract Test Suite (A	ATS) - Data Link	Control (DLC) laver".
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Part 6: "Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Portable radio Termination (PT)";

Part 7: "Abstract Test Suite (ATS) for Network (NWK) layer - Portable radio Termination (PT)";

Part 8: "Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Fixed radio Termination (FT)";

Part 9: "Abstract Test Suite (ATS) for Network (NWK) layer - Fixed radio Termination (FT)".

Transposition dates		
Date of adoption of this ETS:	23 January 1998	
Date of latest announcement of this ETS (doa):	31 May 1998	
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 November 1998	
Date of withdrawal of any conflicting National Standard (dow):	30 November 1998	

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1 Scope

This European Telecommunication Standard (ETS) contains the Abstract Test Suite (ATS) to test the Network (NWK) layer, Portable radio Termination (PT).

The objective of this test specification is to provide a basis for approval tests for DECT equipment giving a high probability of air interface inter-operability between different manufacturer's DECT equipment. Part 7 of this test specification contains the Abstract Test Suite for testing of the NWK layer at the PT.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646 parts 1 to 7 [12] to [18]) as well as the ETSI rules for conformance testing (protocol and profile conformance testing specifications, standardization methodology ETS 300 406 [10]) are used as basis for the test methodology.

Test specifications for the Physical Layer (PHL) are provided in other DECT standards.

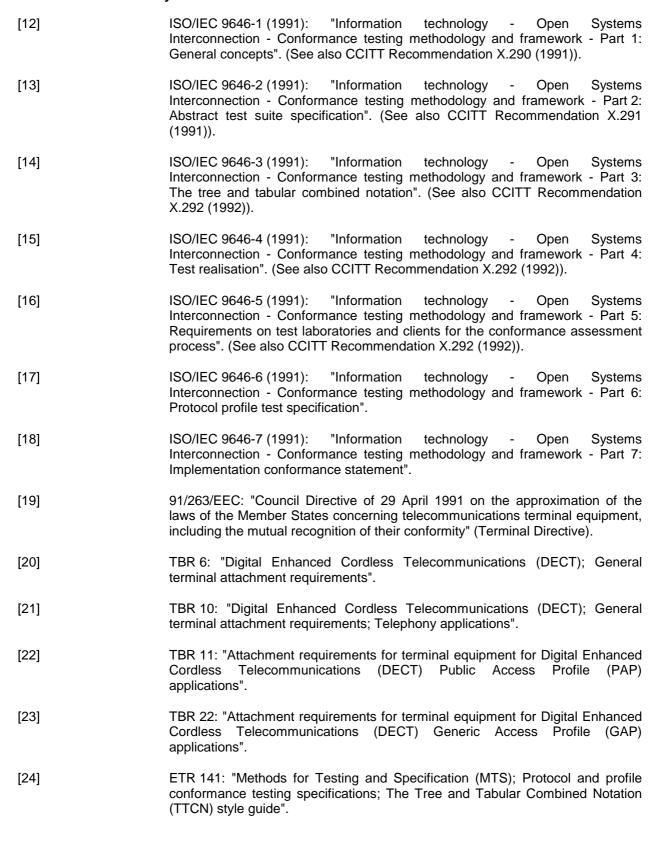
Annex B provides the partial Protocol Implementation Extra Information for Testing (PIXIT) Proforma.

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 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
[2]	ETS 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".
[3]	ETS 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
[4]	ETS 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
[5]	ETS 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
[6]	ETS 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
[7]	ETS 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
[8]	ETS 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
[9]	ETS 300 324-3: "Signalling Protocols and Switching (SPS); V interfaces at the digital Local Exchange (LE); V5.1 interface for the support of Access Network (AN); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the network layer (AN side)".
[10]	ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
[11]	ETS 300 444: "Digital European Cordless Telecommunications (DECT); Generic

Access Profile (GAP)".



3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of this ETS, the definitions given in ISO/IEC 9646-1 [12], ISO/IEC 9646-2 [13], ETS 300 175-1 [1], ETS 300 175-5 [5], ETS 300 175-6 [6] and ETS 300 175-7 [7] apply.

3.2 DECT abbreviations

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

AC Authentication Code
AR Access Rights

ASP Abstract Service Primitive **ATS** Abstract Test Suite Authentication ΑU ΒI Invalid Behaviour BO Inopportune Behaviour BV Valid Behaviour CA Capability CC Call Control

CH Ciphering
CI Call Information
CR Call Release

DECT Digital Enhanced Cordless Telecommunication

DLC Data Link Control FT Fixed radio Termination

IC Incoming Call ID Identification

IPEI International Portable Equipment Identity
IPUI International Portable User Identity
IUT Implementation Under Test

IWU Interworking Unit
KA Key Allocation
LC Link Control entity

LE Connection oriented Link Establishment

LL Connectionless Link control

LO Location

LR Connection oriented Link Release

LS Connection oriented Link Suspend and resume

LT Lower Tester

MAC Medium Access Control
ME Management Entity
MM Mobility Management

MO Connection Oriented Message Services

NWK Network layer OC Outgoing Call

PARK Portable Access Rights Key
PCO Point of Control and Observation
PCTR Protocol Conformance Test Report

PDU Protocol Data Unit PHL Physical Layer

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation Extra Information for Testing

PT Portable radio Termination RPN Radio Fixed Part Number

RS Call Related Supplementary Services

SUT
TCS
Test Case Selection
TCV
Test Case Variable
TP
Test Purposes
TSC
Test Suite Constant
TSO
Test Suite Operation

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TSP Test Suite Parameter TSS Test Suite Structure TSV Test Suite Variable

TTCN Tree and Tabular Combined Notation

UT **Upper Tester**

4 **Abstract Test Method (ATM)**

This clause describes the ATM, the Point of Control and Observation (PCO) used to test the NWK layer of the PT.

4.1 **ATM**

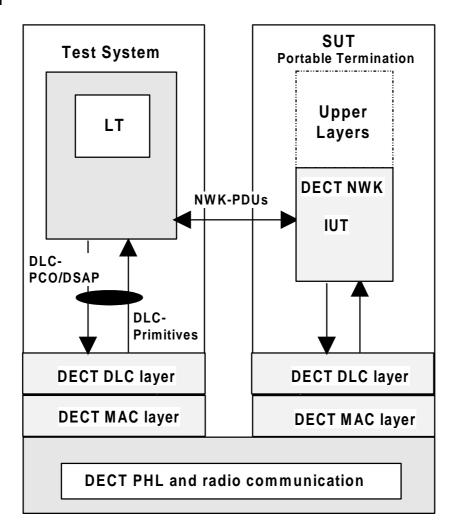


Figure 1: Remote single layer test method embedded variant

LT1: a lower tester (LT1) is located in a remote DECT test system. It controls and observes the behaviour of the Implementation Under Test (IUT).

DSAP: a unique Data Link Control (DLC) SAP is defined at the DECT interface and used to exchange service data of the NWK protocol.

PCO: the PCO for Network Layer testing is located on the DSAP. All test events at the

PCO are specified in terms of DLC Abstract Service Primitives (ASPs) and NWK Protocol Data Units (PDUs).

Upper layers/tester:

no explicit Upper Tester (UT) exists in the test system. However, the System Under Test (SUT) needs to carry out some UL functions to achieve some effects of test co-ordination procedures. Designing ATS, the capability of the Interworking Unit (IWU), such as PSTN, ISDN or GSM IWUs might be taken into account. An example of such controls could be to provoke restarting of the IUT through the Q interface.

4.2 DLC primitives

In this subclause the DSAP primitives are defined according to ETS 300 175-4 [4], subclause 8.3.2 (S-SAP primitives) and ETS 300 175-4 [4], subclause 8.3.3 (B-SAP primitives).

4.2.1 S-SAP primitives

Table 1: DL_DATA_IND primitive

ASP Declaration				
ASP NAME	PCO TYPE	COMMENTS		
DL_DATA_IND	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.3		
Service control information				
Parameter name	Туре	Comments		
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_ID	ETS 300 175-4 [4], subclause 7.3.6		
	ENTIFIER			
	(INTEGER)			
message_unit	PDU	ETS 300 175-4 [4], subclause 8.3.1		

Table 2: DL_DATA_REQ primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_DATA_REQ	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.3	
Service control information			
Parameter name	Type	Comments	
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_ID	ETS 300 175-4 [4], subclause 7.3.6	
	ENTIFIER		
	(INTEGER)		
message_unit	PDU	ETS 300 175-4 [4], subclause 8.3.1	

Table 3: DL_ENCRYPT_CNF primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_ENCRYPT_CNF	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.8	
Service control information			
Parameter name	Type	Comments	
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_IDENTIFIER (INTEGER)	ETS 300 175-4 [4], subclause 7.3.6	
encription_status	CIPHER_STATUS (INTEGER(0,1))	ETS 300 175-4 [4], subclause 8.3.1	

Table 4: DL_ENCRYPT_IND primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_ENCRYPT_IND	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.8
	Service control informatio	n
Parameter name	Туре	Comments
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_II ENTIFIER (INTEGER)	DETS 300 175-4 [4], subclause 7.3.6
connection_identities	CONNECTION_IDENTITIE S (OCTETSTRING)	ETS 300 175-4 [4], subclause 8.3.1
encription_status	CIPHER_STATUS (INTEGER(0,1)	ETS 300 175-4 [4], subclause 8.3.1

Table 5: DL_ENCRYPT_REQ primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_ENCRYPT_REQ	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.8
	Service control information	n
Parameter name	Туре	Comments
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_IDENTIFIER (INTEGER)	DETS 300 175-4 [4], subclause 7.3.6
connection_identities	CONNECTION_IDENTITIE S (OCTETSTRING)	ETS 300 175-4 [4], subclause 8.3.1
encription_status	CIPHER_STATUS (INTEGER(0,1)	ETS 300 175-4 [4], subclause 8.3.1

Table 6: DL_ENC_KEY_REQ primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_ENC_KEY_REQ	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.7
	Service control information	n
Parameter name	Type	Comments
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_IDENTIFIER (INTEGER)	ETS 300 175-4 [4], subclause 7.3.6
connection_identities	CONNECTION_IDENTITIE S (OCTETSTRING)	ETS 300 175-4 [4], subclause 8.3.1
encription_key	ENCRYPTION_KEY (BITSTRING[64])	ETS 300 175-4 [4], subclause 8.3.1

Table 7: DL_ESTABLISH_CNF primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_ESTABLISH_CNF	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.1
Service control information		
Parameter name	Туре	Comments
data_link_endpoint_identifier	DATA_LINK_ENDP	OINT_IDETS 300 175-4 [4], subclause 7.3.6
•	ENTIFIER	
	(INTEGER)	

Table 8: DL_ESTABLISH_IND primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_ESTABLISH_IND	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.1
	Service control information	n
Parameter name	Туре	Comments
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_IDENTIFIER (INTEGER)	ETS 300 175-4 [4], subclause 7.3.6
establish_mode	ESTABLISH_MODE (INTEGER(0,1,2)	ETS 300 175-4 [4], subclause 8.3.1
radio_fixed_part_number	RADIO_FIXED_PART_NUMBER (INTEGER)	METS 300 175-4 [4], subclause 8.3.1
message_unit	PDU	ETS 300 175-4 [4], subclause 8.3.1

Table 9: DL_ESTABLISH_REQ primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_ESTABLISH_REQ	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.1	
	Service control information	n	
Parameter name	Туре	Comments	
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_IDENTIFIER (INTEGER)	ETS 300 175-4 [4], subclause 7.3.6	
establish_mode	ESTABLISH_MODE (INTEGER(0,1,2)	ETS 300 175-4 [4], subclause 8.3.1	
radio_fixed_part_number	RADIO_FIXED_PART_NUM BER (INTEGER)	ETS 300 175-4 [4], subclause 8.3.1	
message_unit	PDU	ETS 300 175-4 [4], subclause 8.3.1	

Table 10: DL_ESTABLISH_RES primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_ESTABLISH_RES	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.1
Service control information		
Parameter name	Туре	Comments
data_link_endpoint_identifier	DATA_LINK_ENDPOIN	T_IDETS 300 175-4 [4], subclause 7.3.6
·	ENTIFIER	
	(INTEGER)	

Table 11: DL_RELEASE_CNF primitive

ASP Declaration		
ASP NAME	PCO TYPE	COMMENTS
DL_RELEASE_CNF	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.2
Service control information		
Parameter name	Type	Comments
data_link_endpoint_identifier	DATA_LINK_ENDPOINT_IDENTIFIER (INTEGER)	ETS 300 175-4 [4], subclause 7.3.6
release_mode	RELEASE_MODE (INTEGER(0,1)	ETS 300 175-4 [4], subclause 8.3.1

Table 12: DL_RELEASE_IND primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_RELEASE_IND	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.2	
Service control information			
Parameter name	Туре	Comments	
	DATA_LINK_ENDPOINT_ID ENTIFIER (INTEGER)	ETS 300 175-4 [4], subclause 7.3.6	
<u> </u>	RELEASE_MODE (INTEGER(0,1)	ETS 300 175-4 [4], subclause 8.3.1	

Table 13: DL_RELEASE_REQ primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_RELEASE_REQ	S-SAP	ETS 300 175-4 [4], subclause 8.3.2.2	
Service control information			
Parameter name	Туре	Comments	
data_link_endpoint_identifier	DATA_LINK_ENDPOINTENTIFIER (INTEGER)	T_ID ETS 300 175-4 [4], subclause 7.3.6	
release_mode	RELEASE_MODE (INTEGER(0,1)	ETS 300 175-4 [4], subclause 8.3.1	

4.2.2 B-SAP primitives

Table 14: DL_BROADCAST_IND primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_BROADCAST_IND	B-SAP	ETS 300 175-4 [4], subclause 8.3.3.1	
Service control information			
Parameter name	Туре	Comments	
cluster_address_list	CLUSTER_ADDRESS_L (OCTETSTRING)	ISTETS 300 175-4 [4], subclause 8.3.1	
message_unit	PDU	ETS 300 175-4 [4], subclause 8.3.1	
extended_message_flag	BIT_1 (BITSTRING[1])	ETS 300 175-4 [4], subclause 8.3.1	
error_flag	BIT_1 (BITSTRING[1])	ETS 300 175-4 [4], subclause 8.3.1	

Table 15: DL_BROADCAST_REQ primitive

ASP Declaration			
ASP NAME	PCO TYPE	COMMENTS	
DL_BROADCAST_REQ	B-SAP	ETS 300 175-4 [4], subclause 8.3.3.1	
	Service control info	rmation	
Parameter name	Туре	Comments	
cluster_address_list	CLUSTER_ADDRES (OCTETSTRING)	SS_LISTETS 300 175-4 [4], subclause 8.3.1	
message_unit	PDU	ETS 300 175-4 [4], subclause 8.3.1	
extended_message_flag	BIT_1 (BITSTRING[1])	ETS 300 175-4 [4], subclause 8.3.1	

4.3 TC execution sequence

The test cases can be executed in any order with no restrictions.

5 Untestable Test Purposes (TP)

This clause gives a list of TP which are not implemented in the ATS (annex A) due to the chosen ATM or other restrictions.

Table 16: Untestable TP (1)

Test Purpose	Reference to ETS 300 497-7
TP/PT/MM/BV/PR-01	
TP/PT/IS/BV-01	
TP/PT/IS/BV-02	
TP/PT/IS/BV-03	
TP/PT/IS/BV-04	
TP/PT/CL/BV-01	
TP/PT/CL/BV-02	
TP/PT/CL/BV-03	

6 ATS conventions

The ATS conventions are intended to give a better understanding of the ATS but they describe also the conventions made for the development of the ATS. Thus for any later maintenance purposes or further development of the ATS the conventions described in this clause shall be considered.

The ATS conventions contain two clauses, the naming conventions and the implementation conventions. The naming conventions describe the structure of the naming of all ATS elements. The implementation conventions describe the functional structure of the ATS.

To define the ATS the guidelines of the documents ETS 300 406 [10] and ETR 141 [24] were considered.

6.1 Naming conventions

6.1.1 Declarations part

This subclause describes the naming conventions chosen for the elements of the ATS declarations part. The following general rules apply:

- identifiers shall be written in lowercase;
- type declarations shall be written in uppercase;
- constraints shall be written with the first letter in uppercase, and the rest in lowercase.

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Information elements are coded in the order from top to bottom and from right to left, in order to make the encoding and decoding easier.

6.1.1.1 Test suite type, ASP and PDU type definitions

The test suite type-definitions, the ASP type definitions and the PDU type definitions shall be written in uppercase. Identifier names of structured type definitions and of the ASP and PDU type definitions, shall be written in lowercase.

Types related to a certain higher layer entity shall commence with a protocol identifier to define which entity they belong to.

EXAMPLE 1: Call Control: cc e.g. CC_SETUP

Id names of Structured Types which are used for invalid tests commence with "bi":

EXAMPLE 2: Bi_cc_setup_tx01

The following ASP primitives are not defined in this ETS.

- DL_UNIT_DATA;
- DL_SUSPEND;
- DL_RESUME;
- DL EXPEDITED.

The following primitives are defined, but not used in this test suite:

- DL_BROADCAST_IND;
- DL_ESTABLISH_CFM;
- DL_ESTABLISH_RES.

6.1.1.2 Test Suite Operations (TSO) definitions

The TSO identifiers are composed of a string in uppercase letters starting by the string "TSO_" (e.g. TSO_INTEGER_TO_O_1).

6.1.1.3 Test suite selection expressions

All selection expression names for test groups are to be preceded with the prefix "SENG_".

All selection expression names for test cases are to be preceded with the prefix "SENC_".

6.1.1.4 Test Suite Parameter (TSP) declarations

The TSP identifiers are composed of a string in uppercase letters starting by the string "TSP_" (e.g. TSP_WINDOW_SIZE).

If the TSP references a Protocol Implementation Conformance Statement (PICS) item, the letter "C" is added to the standard prefix (e.g. TSPC PICS ITEM S23).

If the TSP references a PIXIT item, the letter "X" is added to the standard prefix (e.g. TSPX_PIXIT_ITEM_2).

Exception: If the TSP represents a system parameter or value, only the name defined in the specifications is used (e.g. V_S = send sequence variable).

Complete names as defined in the specifications are used.

6.1.1.5 Test Case Selection (TCS) expression definitions

The naming conventions for the TCS expression definitions use almost the same rules as the TSP, except for the prefix that is "TCS_". Also they are logical combinations of the TSP definitions.

6.1.1.6 Test Suite Constant (TSC) declarations

The TSC identifiers are composed of a string in uppercase letters starting by the string "TSC_" (e.g. TSC_RETRY).

Exception: If the TSC represents a system parameter or value, only the name defined in the specifications is used (e.g. N250).

Complete names as defined in the specifications are used.

6.1.1.7 Test Suite Variable (TSV) declarations

The TSV identifiers are composed of a string in uppercase letters starting by the string "TSV_".

Complete names as defined in the specifications are used.

6.1.1.8 Test Case Variable (TCV) declarations

The TCV identifiers are composed of a string in uppercase letters starting by the string "TCV_".

EXAMPLE: TCV_CRVALUE.

Complete names as defined in the specifications are used.

6.1.1.9 Point of Control and Observation (PCO) declarations

The PCO identifiers are composed of two or four capital letters, beginning with "L", as there are only LTs.

EXAMPLE: LMAC represents a PCO on Medium Access Control (MAC) interface as LT in

the test equipment:

LDLC represents a PCO on DLC interface as LT in the test equipment.

6.1.1.10 Timer declarations

Two types of timers can be identified:

- 1) standardized:
 - those defined in the standard, e.g. T302. They use exactly the same name as in the standard, beginning with a capital "T";
 - as there is a tolerance margin accepted for these timers, three values are needed:
 - the maximum value allowed, which will use the suffix "_max";
 - the minimum value allowed, which will use the suffix " min";
 - the value actually implemented, with no suffix.

EXAMPLE 1: T302_max, T302_min, and T302.

2) not standardized:

those not defined in the standard, i.e. for execution use, e. g. a timer waiting for a response. These timers begin with the prefix "T_", followed by a string in capital letters.

EXAMPLE 2: T_RESP represents a timer for controlling the response time of the IUT.

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6.1.1.11 ASP type definitions

The identifier of an ASP uses exactly the same name as the name defined in the specifications. It is written in uppercase, finishing by an underscore character ("_"), and three capital letters indicating whether it is a request, an indication, a response or a confirmation primitive.

EXAMPLE: DL-RELEASE_REQ for an ASP containing a layer 3 release request passed to

ayer 2;

MAC-CO_DATA_REQ for an ASP containing a layer 2b PDU passed to layer

2a.

6.1.1.12 PDU type definitions

The identifier of a PDU is given in a string in uppercase letters, representing the layer message.

EXAMPLE 1: rr for the Receive Ready layer 2 message;

disconnect for the DISCONNECT layer 3 message.

Where the message is a composite word, an underscore character ("_") appears in the string.

EXAMPLE 2: release_complete is the RELEASE COMPLETE layer 3 message.

Id names of PDUs commence with a protocol identifier to define which protocol they belong to. The following identifiers are used:

- Call Control (CC): cc e.g. CC-SETUP

Id names of PDUs which are used for invalid tests commence with "bi":

EXAMPLE 3: BI-CC-SETUP

6.1.1.13 Alias definitions

These are used to make the sending and receiving of PDUs within ASPs more understandable when writing the dynamic part of the test suite. This is done by giving the ASP an alias. The alias name indicates the PDU carried by the ASP and whether it is sent or received by the tester.

The identifier of an alias consists of a string in capital letters indicating the message, followed by two lowercase letters "r" or "s" indicating if the message should be sent or received by the tester.

6.1.2 Constraints part

This subclause describes the naming conventions chosen for the elements of the ATS constraints part.

Constraint identifiers commence with uppercase. The remaining part of the identifier name is written in lowercase.

Identifier names of elements concerning the same subject have equivalent names in the Declaration and the Constraint part:

Declaration Part: cc_setup; Constraint Part: cc_setup.

The name of the modified constraint describes the particularity of the modified constraint:

EXAMPLE: Cc_setup_mand_only (modified Cc_setup with only the mandatory Information

Elements).

If formal parameter lists are used, the variable names are written in lowercase. The variable name is the same as the name of the element it is representing.

Structured type constraints declarations are divided into:

receive constraints:

the receive constraints are noted down as "name_rx*". The receive constraints are subdivided into:

receive base constraints:

they are noted down as "name_rx_base";

- receive special constraints:

they are noted down as "name_rx_<extension>", where <extension> is a descriptive name (e.g. "Signal_rx_alerting_on");

- transmit constraints:

the transmit constraints are noted down as "name_tx_<extension>", where <extension> is a descriptive name. (e.g. "Signal_tx_alerting_off");

If a certain structured type constraint is valid for both receiving and transmitting, because it contains no wildcards, and the receiving constraint should exactly match, the constraint will be noted down as:

- "<structured type name> extention" Example: "Portable id ipui".

PDU Constraints Declarations are divided into:

- receive constraints:
 - the receive constraints are noted down as "name_rx*". The receive constraints are subdivided into:
 - receive base constraints:
 - they are noted down as "name_rx_base". They constrain all allowed values, and for the optional fields, the "IF_PRESENT" keyword is added;
 - receive special constraints:
 - they are noted down as "name_rx0n", where n is a sequence number;
- transmit constraints:
 - the transmit constraints are noted down as "name_tx", where n is a sequence number. They can be subdivided into:
 - transmit base constraints:
 - they are noted down as "name_tx_base". They constrain all mandatory fields to all allowed values in the standard, and they constrain all optional fields to "OMIT":
 - transmit special constraints:
 - they are noted down as "name_tx0n" where n is a sequence number. They shall not contain any wildcards.

Derived constraints shall not be more than 1 level deep. They shall only be derived directly from the base constraint.

The test suite is not ready yet to handle PDU"s with empty information elements. For every receive constraint, also a information element constraint with an empty parameter list should be added.

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6.1.3 Dynamic part

This subclause describes the naming conventions chosen for the elements of the ATS dynamic part.

6.1.3.1 Test Case (TC) identifier

The identifier of the TCs is built in the same way as for the TP described in ETS 300 324-3 [9], subclause 5.1.1, with the exception that "TP" is replaced by "TC":

TP identifier: TPCCBI-04; TC identifier: TCCCBI-04.

6.1.3.2 Test Step (TS) identifier

The TS identifier is built with two strings of capital letters joined by underscore character. The first string indicates the main function of the TS, e.g. PR for preamble, PO for postamble, CS for check state and STP for general step. The second string indicates the meaning of the step.

In some TCs, test steps as well as local trees can be used. To allow an easy distinguishing of them the following naming applies:

- LTS_[local_tree_name] local tree;

STP_[test_step_name] test step.

TSs are grouped together according to their functionality: CC, MM, LC or ME.

6.1.3.3 Default identifier

The default identifiers begin with the prefix "DF_", followed by a string in capital letters.

6.1.3.4 General aspects

Final verdicts will only be assigned in defaults and in postambles.

All verdict assignments are labelled. To allow an exact identification in which table the verdict was assigned, the following name convention is applied:

B test Body

CS Check State test steps

D Default

E Error handling test steps

PO POstamble
PR PReamble
S test Step

Also combinations of labels are possible:

EXAMPLE: DPR --> label which is used in a default for preambles.

6.1.3.5 ATS abbreviations

These abbreviations are used to shorten identifier names:

acknowledgement ack authentication auth algorithm algo call control CC cfm confirm establish est extension ext identification id

indindicationinfoinformationmaxmaximumminminimumpropproprietaryreqrequestresresponse

The following keywords will NOT be abbreviated in identifier names:

address(es); attribute(s); identity; number(s); character(s).

6.2 Implementation conventions

6.2.1 Declaration part

The comment line of single element Tree and Tabular Combined Notation (TTCN) tables (e.g. test suite constants) is used to give a reference where the format and content of the element is described in the relevant protocol specifications. Any particularity of the element format or content is described in the comment line.

The comment line in the header of multi element TTCN tables (e.g. ASPs) is used to reference to the protocol specification. The detailed comments are used to describe any particularity of the table.

In the ASP and PDU declarations, the comments column is used to identify if an element is mandatory or optional:

m: mandatory o: optional

In the ASP and PDU declarations the comments column is further used to give information about the element value, in particular if the element contains a fixed spare value.

In tables where structure types are used the information element and the relevant structured type have always the same name, that allows to have the same structure as in the protocol standards is used to document the relation between information elements in a table and their specific description in an other clause of the protocol standard.

The following conventions apply to identifier names in the Structured Type definitions part:

- bits of bit sequences having a fixed value, meant to fill up the octet, are called fn, where n stands for the octet number;
- extension flags, will be called extn, where n stands for the octet number.

6.2.2 Constraint part

The ASPs and PDUs are defined in a way that all relevant element are parameterized. That improves the transparency of the constraints in the dynamic part, as all values which are relevant for the test are always present.

Generally no modified constraints are used, this allows an easier reuse and adaptation of constraints if they are reused in other DECT profile test specifications.

The comment line of a constraint contains always the reference to the used specifications.

The detailed comments sector is used to describe any particularity of the table.

6.2.3 Dynamic part

Some TCs need a particular initialisation of the IUT environment conditions to run the actual test, e.g. for testing re-provisioning procedures. Such message sequence can be quite complicated and long. In cases where a Local Test Step (LTS) facilitates the TC structure, the preamble and the condition setting are described in a LTS called "LTS_pre_step". All LTS_pre_steps are described in the detailed comment part of the TTCN table.

Some TCs need after the actual test a particular re-initialization of the IUT, e.g. after re-provisioning. Such message sequence can be quite complicated and long. In cases where a Local Test Step (LTS) facilitates the TC structure, the postamble and the re-initialization are described in a LTS called "LTS_post_step". All LTS_post_steps are described in the detailed comment part of the TTCN table.

All events which are defined as a conformance requirements by the TP, cause a preliminary verdict PASS if the requirement is met.

All invalid events are handled in the default tree. FAIL verdicts are only assigned in the default tree.

The preamble, the test body and the postamble have different defaults, what allows a specific verdict handling, e.g. only INCONC verdicts are assigned in the preamble.

Test steps do not contain a default. That allows to apply them with no restrictions regarding the error handling.

All verdict assignments are labelled. According to ISO 9646-3 [14], annex E.2, labels should be written to the conformance log. This allows to identify were the test failed. To allow an exact identification in which table the verdict was assigned, the naming convention as described in subclause 6.1.3.3 is applied.

The labels of the same type are numbered sequentially if they are in the same TC, test step or default.

TP which are listed in the untestable TP list in clause 5, or which reference to an other TP, e.g. BV TP which were already defined as CA TP, are not considered in the ATS, thus these TC identifiers are missing in the ATS and the numbering of the TCs is not always continues.

6.2.4 Documentation

The comment line of the TC or test step header contains a reference to the relevant protocol specification.

The comment column of the dynamic behaviour part is used to number the test events which are relevant for the particular test or test operation.

Based on the numbering in the comment column all for the TC relevant events are described in the Detailed Comments part of each TTCN table.

Test procedures which cover a conformance requirement and lead to a preliminary or final verdict assignment are described as follows in the Detailed Comments part:

expected event: a specific receive event is expected; expected behaviour: no event or a timer expiry is expected;

expected status: the IUT is expected to be in a particular status.

Annex A (normative): Abstract Test Suite (ATS) for NWK testing

The ATS is written in TTCN according to ISO/IEC 9646-3 [14].

As the ATS was developed on a separate TTCN tool the TTCN tables are not completely referenced in the contents table. The ATS itself contains a subclause Test Suite Overview which provides additional information and references about the ATS.

NOTE: According to ISO/IEC 9646-3 [14], in case of a conflict in interpretation of the

operational semantics of TTCN.GR and TTCN.MP, the operational semantics of the

TTCN.GR representation takes precedence.

A.1 The machine processable ATS (TTCN.MP)

The electronic form of the machine processable file (TTCN MP format) corresponding to this ATS is contained in an ASCII text file (4977_e2.MP (note)) associated with this ETS.

NOTE: This file is located in a compressed archive file named 4977_e2.LZH. Other file

formats are available on request.

A.2 The graphical ATS (TTCN.GR)

The electronic form of the graphical ATS (TTCN GR format) corresponding to this ATS is contained in an ASCII Postscript file (4977_e2.PS (note)) associated with this ETS.

NOTE: This file is located in a compressed archive file named 4977_e2.LZH. Other file

formats are available on request.

Annex B (normative): Partial PIXIT proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed PIXIT.

The PIXIT Proforma is based on ISO/IEC 9646-6 [17]. Any additional information needed can be found in this international standard document.

B.1 Identification summary

Table B.1

PIXIT Number:	
Test Laboratory Name:	
Date of Issue:	
Issued to:	

B.2 ATS summary

Table B.2

Protocol Specification:	
Protocol to be tested:	
ATS Specification:	
Abstract Test Method:	Embedded variant of the Remote Test Method with no UT

B.3 Test laboratory

Table B.3

Test Laboratory Identification:	
Test Laboratory Manager:	
Means of Testing:	
SAP Address:	

B.4 Client identification

Table B.4

Client Identification:	
Client Test manager:	
Test Facilities required:	

B.5 SUT

Table B.5

Name:	
Version:	
SCS Number:	
Machine configuration:	
Operating System Identification:	
IUT Identification:	
PICS Reference for IUT:	
Limitations of the SUT:	
Environmental Conditions:	

B.6 Protocol layer information

B.6.1 Protocol identification

Table B.6

Name:	DECT - NetWorK Layer
Version:	
PICS References:	

B.6.2 **IUT** information

Table B.7: General Configuration

Item	Parameter	Parameter Type	Explanation and ETS Reference	Value
1	TSPX_mmproc_auft_ccsta te	CCSTATE_TYPE (INTEGER 1, 2, 3, 4, 5, 6, 7, 10, 19)	Indicates the PT cc state, the authentication of Fixed radio Termination (FT) test cases shall be tested in ETS 300 175-5 [5], subclause 13.3.3	
2	TSPX_mmproc_cipt_ccsta te	CCSTATE_TYPE (INTEGER 1, 2, 3, 4, 5, 6, 7, 10, 19)	Indicates the PT cc state, the PT initiated ciphering test cases shall be tested in ETS 300 175-5 [5], subclause 13.8	
3	TSPX_mmproc_auft_invok e	MMPROC_TYPE (INTEGER 0 10)	Indicates the way of invoking the authentication of FT procedure: ETS 300 175-5 [5], subclause 13.3.3	
4	TSPX_mmproc_cipt_invok e	MMPROC_TYPE (INTEGER 0 10)	Indicates the way of invoking the PT initiated ciphering procedure: ETS 300 175-5 [5], subclause 13.8	
5	TSPX_nr_of _digits_in_cpn	INT_8 (INTEGER 0255)	In order to facilitate testing, a number of digits less then 10 is advised. This parameter really indicates the number of CC_INFO messages to be expected during call setup.	
6	TSPX_onhook_aut	BOOLEAN	TRUE if the IUT automatically goes on-hook when the call is cleared.	
7	TSPX_lce_02	INTEGER	Value of Timer T_P_LCE_02 in milliseconds	
8	TSPX_dummy_bearer_ duration	INTEGER	Value of wait timer used to delay the test case after setting up a second dummy bearer in case of intercell handover testing.	
9	TSPX_decay_rate	INTEGER	Ramp gradient for power down the RFP power. Used for the TSO equivalent to the MAC TSC_action7. Shall be between 0 and 10 dB/s	

Table B.8: Addresses

Item	Address name	Parameter Type	Explanation and ETS Reference	Value
1	TSPX_decimal_ac_value	OCT_4 (OCTETSTRING[4])	Value of Authentication Code (AC) to be used. The AC will be entered as	
			maximal 8 decimal digits. The AC to bitstring mapping will be done with	
			operation TSO_cinpt_convert_ac_to_bitstring.	
			Reference: ETS 300 444 [11],	
2	TSPX_complete_fixed_id_a	FIXED ID VALUE TYP	subclause 14.2 Value of fixed_id to be used in case of	
_	ri_rpn_value	E	ARI + RPN (Radio Fixed Part Number)	
		(BITSTRING[872])	Reference: ETS 300 175-5 [5], subclause 7.7.18	
			40 bits starting with 0	
3	TSPX_ipei_value	PORT_ID_VALUE_TYPE (BITSTRING[8104])	Value of International Portable Equipment Identity (IPEI) (IPUI-N) to be	
		(BITOTKINO[0104])	expected from the IUT (before	
			subscription). Fill up to 40 bits with leading 0s.	
			Reference: ETS 300 175-5 [5],	
4	TSPX_ipui_value	PORT_ID_VALUE_TYPE	subclause 7.7.30 Value of portable_id to be used in case	
4	15PA_ipui_value	(BITSTRING[8104])	of a International Portable User Identity	
			(IPUI) (after subscription)	
			Reference: ETS 300 175-5 [5], subclause 7.7.30	
5	TSPX_ipui_value_2	PORT_ID_VALUE_TYPE	Value of portable_id to be used in case	
		(BITSTRING[8104])	of a second IPUI (after subscription) Reference: ETS 300 175-5 [5],	
_			subclause 7.7.30	
6	TSPX_location_area_level	BIT_6 (BITSTRING[6])	The location area level that is going to be used	
			Reference: ETS 300 175-5 [5],	
7	TSPX_complete_fixed_id_p	FIXED_ID_VALUE_TYP	subclause 7.7.25 Value of fixed_id to be used in case of	
'	ark_value	E	Portable Access Rights Key (PARK).	
		(BITSTRING[872])	PARK A 36 bits, PARK B, C, D - 31 bits Reference: ETS 300 175-5 [5],	
			subclause 7.7.18	
8		FIXED_ID_VALUE_TYP	Value of fixed_id to be used in case of	
	ark_value_2	E (BITSTRING[872])	a second PARK. PARK A 36 bits, PARK B, C, D - 31 bits.	
		/	Reference: ETS 300 175-5 [5],	
9	TSPX_tpui_value	PORT_ID_VALUE_TYPE	subclause 7.7.18 Value of tpui to be used, when	
	_, _ · · ·	(BITSTRING[8104])	assigning a tpui to the IUT	
			Procedure ETS 300 175-5 [5], subclause 7.7.30	
10	TSPX_decimal_upi_value	OCT_4	Value of UPI to be used. The UPI will	
		(OCTETSTRING[4])	be entered as maximal 8 decimal digits. The UPI to bitstring mapping will	
			be done with operation	
			TSO_cinpt_convert_upi_to_bitstring. Reference: ETS 300 444 [11],	
			subclause 8.22	
11	TSPX_park_length_indicato	INTEGER	Number of significant bits in	
12	r TSPX_park_length_indicato	INTEGER	TSPX_park_value (PLI) Number of significant bits in	
12	r_2	IIIII IIII	TSPX_park_value_2(PLI)	

Table B.9: Implicit send events

Item	PIXIT (see Note)	Related implicit send message (PDU)	Indication how the implicit send event can be invoked
1	TSPX_change_location_ar	To change the location area	
	ea	broadcasted by the LT. The	
		location area is considered to be	
		different to the one specified in	
		STP_init_broadcast_bits. The implicit send will contain a	
		Dl_est_ind_no_pdu, because the	
		IUT should begin link	
		establishment, in order to perform	
		location registration.	
2	TSPXinvoke_call_answe	To invoke the IUT to answer the	
	ring	incoming call. The IUT will go off	
		hook when call present. Expected constraint:	
		Cc_connect_rx_base	
3	TSPXinvoke_dialled_digit	To invoke the IUT to dial a digit.	
4	TSPXinvoke_dialling_pa	To invoke the IUT to make a	
	use	dialling pause, the Cc_info	
		constraint contains multi-keypad	
		i.e. with the value "dialling pause"	
5	TSPXinvoke_dtmf_defin	Expected constraint: Cc_info_rx03 To invoke the IUT to go to DTMF	
5	ed	dialling with defined tone length,	
	54	the Cc_info constraint contains a	
		multi-keypad i.e. with the value	
		"dtmf defined"	
	TODY is also lead in finite.	Expected constraint: Cc_info_rx04	
6	TSPX_invoke_dtmf_infinite	To invoke the IUT to go to DTMF dialling with infinite tone length, the	
		Cc_info constraint contains a multi-	
		keypad i.e. with the value "dtmf	
		infinite"	
		Expected constraint: Cc_info_rx05	
7	TSPX_invoke_internal_call	To invoke the IUT to go off hook	
		for an internal call setup, while in state T-00, a DL_EST_IND without	
		a PDU is expected to be send by	
		the IUT.	
8	TSPX_invoke_normal_release	To invoke the IUT to go on hook, thus	
		initiating a normal release, while in any	
		cc state. A dl_data_indication is to be expected, containing a CC_RELEASE	
		message.	
		Expected Constraint:	
9	TSPX_invoke_obtain_accessr	Cc_release_rx_base To invoke the obtain access rights	
9	ights	procedure, initiated by the IUT. A	
	-	Dl_est_ind_no_pdu is to be expected,	
		because the IUT will start link	
		establishment, in order to executed the obtain access rights procedure.	
		The AC has to be entered in order to	
		start the obtain access rights	
		procedure. Expected Constraint:	
		DI_est_ind_no_pdu	
		(continued)	

(continued)

Table B.9 (concluded): Implicit send events

10	TSPX_invoke_outgoing_call	To invoke the IUT to go off hook for a	
		normal outgoing call setup, while in	
		state T-00, a DL_EST_IND without a	
		PDU is expected to be send by the	
		IUT.	
11	TSPX_invoke_partial_release	To invoke the IUT to initiate a partial	
		release. (when a link to the IUT is	
		active), a CC_RELEASE message is	
		expected, but no requirements on the	
		release reason are made as the	
		release reasons is optional in	
		ETS 300 444.	
		Expected constraint:	
		Cc_release_rx_base	
12	TSPX_invoke_pulse_dialling	To invoke the IUT to go to pulse, the	
		Cc_info constraint contains multi-	
		keypad i.e. with the value "goto pulse"	
		Expected constraint: Cc_info_rx02	
13	TSPX_invoke_pt_init_cipherin	To invoke the PT to initiate ciphering	
	g = -i = - :	on. A dl_data_ind is expected,	
		containing a CIPHER-SUGGEST	
		PDU.	
		Expected constraint:	
		Cipher_suggest_rx01	
14	TSPX_invoke_pt_off_cipherin	To invoke the PT to initiate ciphering	
	g	off. A dl_data_ind is expected,	
		containing a CIPHER-SUGGEST	
		PDU.	
		Expected Constraint:	
		Cipher_suggest_rx02	
15	TSPX_invoke_register_recall	To invoke the IUT to initiate register	
		recall, the Cc_info constraint contains	
		multi-keypad i.e. with the value	
		"register recall"	
		Expected constraint: Cc_info_rx08	
16	TSPX_invoke_upi_entering	To enter the user personal identity at	
		the PT. The user types in its upi, and	
		after this a dl_data_ind is to be	
		expected, containing an	
		AUTH_REPLY message. The value of	
		the UPI has to be specified in the	
		PIXIT parameter	
		TSPX_decimal_upi_value.	
		Expected constraint:	
		Auth_reply_rx_base	
17	TSPX_invoke_ft_authenticatio	To invoke the PT initiated FT	
	n	authentication	
		Expected constraint:	
		Auth_req_rx_base	

NOTE: The PIXIT names are related to the test steps where the Implicit send events are handled, e.g. the PIXIT TSPX_invoke_abnormal_release is related to the test step STP_invoke_abnormal_release.

Annex C (normative): Protocol Conformance Test Report (PCTR) proforma for DECT NWK

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PCTR proforma in this annex so that it can be used for its intended purposes and may further publish the completed PCTR.

The PCTR proforma is based on ISO/IEC 9646-6 [17]. Any additional information needed can be found in this document

this document.					
C.1 Identification summary					
C.1.1 Protocol conformance test	C.1.1 Protocol conformance test report				
Table C.1					
PCTR Number:					
PCTR Date:					
Corresponding SCTR Number:					
Corresponding SCTR Date:					
Test Laboratory Identification:					
Test Laboratory Manager:					
Signature:					
	Table C.2				
Name: Version:					
Protocol specification:					
PICS:					
Previous PCTR if any:					
i revious i OTICII arry.					
C.1.3 Testing environment Table C.3					
PIXIT Number:					
ATS Specification:					
ostract Test Method: Remote test method, Embedded variant with no UT					
Means of Testing identification:					
Date of testing:					
Conformance Log reference(s):					
Retention Date for Log reference(s):					

C.1.4 Limits and reservation

Additional information relevant to the technical contents or further use of the test report, or the rights and obligations of the test laboratory and the client, may be given here. Such information may include restriction on the publication of the report.

C.1.5 Comments

Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.
C.2 IUT conformance status
This IUT has or has not been shown by conformance assessment to be non conforming to the specified protocol specification.
Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements (as specified in clause 3 in this report) and there are no "FAIL" verdicts to be recorded (in clause 6) strike the words "has or". otherwise strike the words "or has not".
C.3 Static conformance summary
The PICS for this IUT is or is not consistent with the static conformance requirements in the specified protocol.
Strike the appropriate words in this sentence.
C.4 Dynamic conformance summary
The test campaign did or did not reveal errors in the IUT.
Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause 6 o this report) strike the words "did or". otherwise strike the words "or did not".
Summary of the results of groups of test:
C.5 Static conformance review report
If clause 3 indicates non-conformance, this subclause itemises the mismatches between the PICS and the static conformance requirements of the specified protocol specification.

Test campaign report

Table C.4

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
TC_PT_CC_BV_OC_01	Yes/No	Yes/No		,
TC_PT_CC_BV_OC_02	Yes/No	Yes/No		
TC_PT_CC_BV_OC_03	Yes/No	Yes/No		
TC_PT_CC_BV_OC_04	Yes/No	Yes/No		
TC_PT_CC_BV_IC_01	Yes/No	Yes/No		
TC_PT_CC_BV_IC_02	Yes/No	Yes/No		
TC_PT_CC_BV_IC_03	Yes/No	Yes/No		
TC_PT_CC_BV_IC_04	Yes/No	Yes/No		
TC_PT_CC_BV_CI_01	Yes/No	Yes/No		
TC_PT_CC_BV_CI_02	Yes/No	Yes/No		
TC_PT_CC_BV_CI_03	Yes/No	Yes/No		
TC_PT_CC_BV_CI_04	Yes/No	Yes/No		
TC_PT_CC_BV_CI_05	Yes/No	Yes/No		
TC_PT_CC_BV_CI_06	Yes/No	Yes/No		
TC_PT_CC_BV_CI_07	Yes/No	Yes/No		
TC_PT_CC_BV_CI_08	Yes/No	Yes/No		
TC_PT_CC_BV_CI_09	Yes/No	Yes/No		
TC_PT_CC_BV_CI_10	Yes/No	Yes/No		
TC_PT_CC_BV_CI_11	Yes/No	Yes/No		
TC_PT_CC_BV_CI_12	Yes/No	Yes/No		
TC_PT_CC_BV_CI_13 TC_PT_CC_BV_CI_14	Yes/No	Yes/No		
TC_PT_CC_BV_CI_14 TC_PT_CC_BV_CR_01	Yes/No	Yes/No		
TC PT CC BV CR 02	Yes/No Yes/No	Yes/No Yes/No		
TC_PT_CC_BV_CR_03	Yes/No	Yes/No		
TC_PT_CC_BV_CR_04	Yes/No	Yes/No		
TC_PT_CC_BV_CR_05	Yes/No	Yes/No		
TC_PT_CC_BV_CR_06	Yes/No	Yes/No		
TC_PT_CC_BV_CR_07	Yes/No	Yes/No		
TC PT CC BV CR 08	Yes/No	Yes/No		
TC PT CC BV CR 09	Yes/No	Yes/No		
TC_PT_CC_BV_CR_10	Yes/No	Yes/No		
TC PT CC BV CR 11	Yes/No	Yes/No		
TC_PT_CC_BV_RS_01	Yes/No	Yes/No		
TC_PT_CC_BO_01	Yes/No	Yes/No		
TC PT CC BO 02	Yes/No	Yes/No		
TC_PT_CC_BI_01	Yes/No	Yes/No		
TC_PT_CC_BI_02	Yes/No	Yes/No		
TC_PT_CC_BI_03	Yes/No	Yes/No		
TC_PT_CC_TI_01	Yes/No	Yes/No		
TC_PT_CC_TI_02	Yes/No	Yes/No		
TC_PT_CC_TI_03	Yes/No	Yes/No		
TC_PT_CC_TI_04	Yes/No	Yes/No		
TC_PT_MM_BV_ID_01	Yes/No	Yes/No		
TC_PT_MM_BV_ID_02	Yes/No	Yes/No		
TC_PT_MM_BV_ID_03	Yes/No	Yes/No		
TC_PT_MM_BV_ID_04	Yes/No	Yes/No		
TC_PT_MM_BV_ID_08	Yes/No	Yes/No		
TC_PT_MM_BV_AU_01	Yes/No	Yes/No		
TC_PT_MM_BV_AU_02	Yes/No	Yes/No		
TC_PT_MM_BV_AU_03	Yes/No	Yes/No		
TC_PT_MM_BV_AU_04	Yes/No	Yes/No		
TC_PT_MM_BV_AU_05	Yes/No	Yes/No		
TC_PT_MM_BV_AU_06	Yes/No	Yes/No		
TC_PT_MM_BV_AU_07	Yes/No	Yes/No		
		(continued)	

Table C.4 (continued)

TC_PT_MM_BV_AU_08	Voo/No	Vaa/Na		
	Yes/No	Yes/No		
TC_PT_MM_BV_AU_09	Yes/No	Yes/No		
TC_PT_MM_BV_LO_01	Yes/No	Yes/No		
TC_PT_MM_BV_LO_02	Yes/No	Yes/No		
TC_PT_MM_BV_LO_03	Yes/No	Yes/No		
TC_PT_MM_BV_LO_04	Yes/No	Yes/No		
TC_PT_MM_BV_LO_05	Yes/No	Yes/No		
TC_PT_MM_BV_LO_06	Yes/No	Yes/No		
TC_PT_MM_BV_LO_07	Yes/No	Yes/No		
TC PT MM BV LO 08	Yes/No	Yes/No		
TC_PT_MM_BV_LO_09	Yes/No	Yes/No		
TC_PT_MM_BV_AR_01	Yes/No	Yes/No		
TC_PT_MM_BV_AR_03	Yes/No	Yes/No		
TC_PT_MM_BV_AR_05	Yes/No	Yes/No		
TC_PT_MM_BV_AR_06	Yes/No	Yes/No		
TC PT MM BV AR 09				
	Yes/No	Yes/No		
TC_PT_MM_BV_AR_10	Yes/No	Yes/No		
TC_PT_MM_BV_KA_01	Yes/No	Yes/No		
TC_PT_MM_BV_KA_02	Yes/No	Yes/No		
TC_PT_MM_BV_KA_03	Yes/No	Yes/No		
TC_PT_MM_BV_CH_01	Yes/No	Yes/No		
TC_PT_MM_BV_CH_02	Yes/No	Yes/No		
TC_PT_MM_BV_CH_03	Yes/No	Yes/No		
TC_PT_MM_BV_CH_04	Yes/No	Yes/No		
TC_PT_MM_BV_CH_05	Yes/No	Yes/No		
TC_PT_MM_BV_CH_08	Yes/No	Yes/No		
TC_PT_MM_BV_CH_09	Yes/No	Yes/No		
TC_PT_MM_BV_CH_10	Yes/No	Yes/No		
TC_PT_MM_BV_CH_11	Yes/No	Yes/No		
TC_PT_MM_BV_CH_12	Yes/No	Yes/No		
TC_PT_MM_BV_CH_13	Yes/No	Yes/No		
TC_PT_MM_BV_CH_14		Yes/No		
	Yes/No			
TC_PT_MM_BV_CH_15	Yes/No	Yes/No		
TC_PT_MM_BO_01	Yes/No	Yes/No		
TC_PT_MM_BI_01	Yes/No	Yes/No		
TC_PT_MM_BI_02	Yes/No	Yes/No		
TC_PT_MM_BI_03	Yes/No	Yes/No		
TC_PT_MM_BI_04	Yes/No	Yes/No		
TC_PT_MM_TI_01	Yes/No	Yes/No		
TC_PT_MM_TI_03	Yes/No	Yes/No		
TC_PT_MM_TI_04	Yes/No	Yes/No		
TC_PT_MM_TI_05	Yes/No	Yes/No		
TC_PT_ME_BV_01	Yes/No	Yes/No		
TC_PT_ME_BV_02	Yes/No	Yes/No		
TC_PT_ME_BV_03	Yes/No	Yes/No		
TC_PT_ME_BV_04	Yes/No	Yes/No		
TC_PT_ME_BV_05	Yes/No	Yes/No		
TC_PT_ME_BV_06	Yes/No	Yes/No		
TC_PT_ME_BV_07	Yes/No	Yes/No		
TC_PT_ME_BV_07 TC_PT_ME_BV_09				
TC_PT_ME_BV_09 TC_PT_ME_BV_10	Yes/No	Yes/No		
	Yes/No	Yes/No		
TC_PT_ME_BV_11	Yes/No	Yes/No		
TC_PT_ME_BV_12	Yes/No	Yes/No		
TC_PT_ME_BV_13	Yes/No	Yes/No		
TC_PT_ME_BO_01	Yes/No	Yes/No		
TC_PT_LC_BV_LE_01	Yes/No	Yes/No		
TC_PT_LC_BV_LE_02	Yes/No	Yes/No		
TC_PT_LC_BV_LR_01	Yes/No	Yes/No		
TC_PT_LC_BV_LR_02	Yes/No	Yes/No		
		(continued)	1	

Table C.4 (concluded)

TC_PT_LC_BV_LR_03	Yes/No	Yes/No	
TC_PT_LC_BI_01	Yes/No	Yes/No	
TC_PT_LC_BI_03	Yes/No	Yes/No	
TC_PT_LC_TI_02	Yes/No	Yes/No	

C.7 Observations

Additional information relevant to the technical content of the PCTR are given here.

Annex D (informative): Bibliography

The following references are provided for information.

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