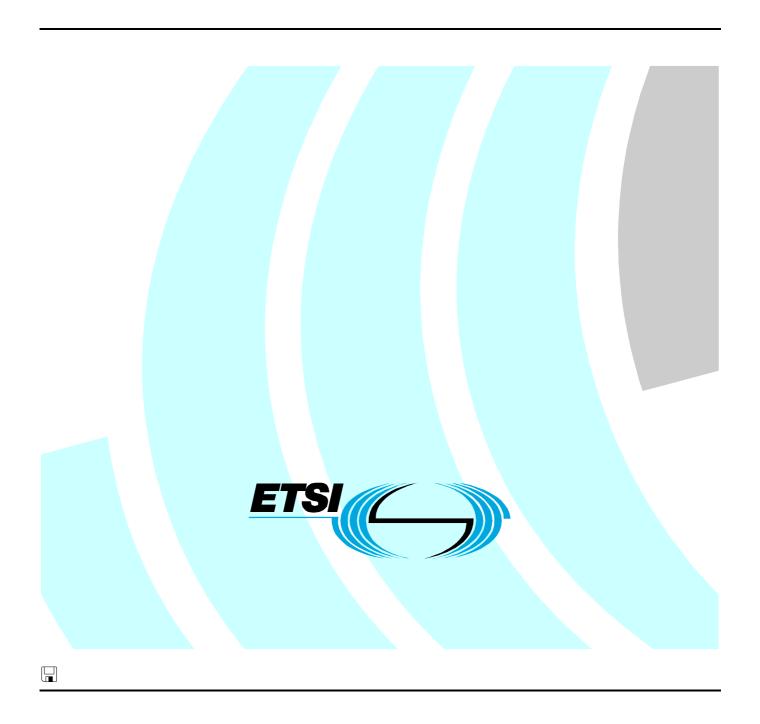
ETSITS 102 149-3 V1.3.1 (2006-06)

Technical Specification

Broadband Radio Access Networks (BRAN);
HIPERACCESS;
Conformance Testing for the Data Link Control (DLC) layer;
Part 3: Abstract Test Suite (ATS)



Reference

RTS/BRAN-003T002-3R2

Keywords

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Broadband Radio Access Networks (BRAN).

The present document is part 3 of a multi-part covering Broadband Radio Access Networks (BRAN); HIPERACCESS; Data Link Control (DLC) layer as identified below:

Part 1: "Protocol Implementation Conformance Statement (PICS) proforma";

Part 2: "Test Suite Structure and Test Purposes (TSS&TP) specification";

Part 3: "Abstract Test Suite (ATS)".

1 Scope

The present document contains the Abstract Test Suite (ATS) to test the BRAN HIPERACCESS; Data Link Control (DLC) layer.

The objective of the present document is to provide a basis for conformance tests for BRAN HIPERACCESS equipment giving a high probability of air interface inter-operability between different manufacturers' BRAN HIPERACCESS equipment.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [3] and ISO/IEC 9646-2 [4]) as well as the ETSI rules for conformance testing (ETS 300 406 [2]) are used as a basis for the test methodology.

- Annex A provides the Tree and Tabular Combined Notation (TTCN) part of the ATS.
- Annex B provides the Partial Protocol Implementation Extra Information for Testing (PIXIT) proforma of the AT side ATS.
- Annex B provides the Partial Protocol Implementation Extra Information for Testing (PIXIT) proforma of the AP side ATS.
- Annex D provides the Protocol Conformance Test Report (PCTR) proforma of the AT side ATS.
- Annex E provides the Protocol Conformance Test Report (PCTR) proforma of the AP side ATS.

2 References

[7]

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

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

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

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[1]	ETSI TS 102 000: "Broadband Radio Access Networks (BRAN); HIPERACCESS; DLC protocol specification".
[2]	ETSI ETS 300 406: " Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology ".
[3]	ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
[4]	ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".
[5]	ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The tree and tabular combined notation".
[6]	ISO/IEC 9646-6: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".

methodology and framework - Part 7: Implementation conformance statement".

ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing

[8] ETSI TS 102 149-2: "Broadband Radio Access Networks (BRAN); HIPERACCESS; Conformance testing for the Data Link Control (DLC) layer; Part 2: Test Suite Structure and Test Purposes (TSS&TP) specification".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 102 000 [1] and ISO/IEC 9646-7 [7] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ISO/IEC 9646-1 [3], ISO/IEC 9646-6 [6], ISO/IEC 9646-7 [7], TS 102 000 [1] and the following apply:

AP Access Point (= base station)
ARQ Automatic Repeat reQuest
ASP Abstract Service Primitive

AT Access Termination (= terminal = subscriber station)

ATSP Abstract Testing Service Primitives

ATM Abstract Test Method

ATM Asynchronous Transfer Mode
ATPC Automatic Transmit Power Control

ATS Abstract Test Suite

ATTC Automatic Transmit Time Control

BO Inopportune Behaviour
BV Valid Behaviour
CA CApability tests
CA Connection Aggregate
CE Connection Establishment
CM Connection Modification
COC COnnection Control

CS Check State

CT Connection Termination
DES Data Encryption Standard

DF DeFault DownLink

DLC Data Link Control (layer)

ETH ETHernet

FS Frequency Scanning IA Initial Authorization

ID IDentity

INC INitialization Control IUT Implementation Under Test

KR Key Requests
KU Keys Usage
LS Link Supervision
LT Lower Tester

MAC Medium Access Control

MC MultiCast

OC Other Capabilities negotiation PA Parameters Acquisition

PCO Point of Control and Observation
PCTR Protocol Conformance Test Report

PDU Protocol Data Unit PHY PHYsical (layer)

PICS Protocol Implementation Conformance Statement

PN Physical capabilities Negotiation PO **POstamble** PR **PReamble** RA **RAnging** RE REauthorization **RRC** Radio Resource Control SAP Service Access Point SAR Segmentation And Re-assembly **SEC** SEcurity Control

SEC SEcurity Control
SUT System Under Test

TB Test Body TC Test Cases

TD Transmission Delay

TDMA Time Division Multiple Access

TEK Traffic Encryption Key

TI TImer tests
TID Terminal ID
TP Test Purposes
TP Time for Processing
TS Technical Specification
TSS Test Suite Structure

TTCN Tree and Tabular Combined Notation

UIUC Uplink Interval Usage Code

UL UpLink UT Upper Tester

4 Abstract Test Method (ATM)

This clause describes the ATM used to test the HIPERACCESS DLC layer at the AP side and at the AT side.

4.1 Test architecture

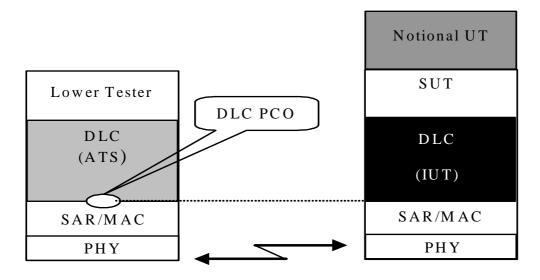


Figure 1: Test architecture for DLC

A single-party testing concept is used, which consists of the following abstract testing functions:

Lower Tester A Lower Tester (LT) is located in the remote BRAN HA test system. It controls and observes the

behaviour of the IUT.

DLC ATS: A DLC Abstract Test Suite (ATS) is located in the remote BRAN HA test system.

DLC PCO:

The Point of Control and Observation (PCO) for DLC testing is located at a SAP between the DLC layer and the MAC layer. All test events at the PCO are specified in terms of Abstract Testing Service Primitives (ATSP defined in clause 7) containing complete PDU. To avoid the complexity of data fragmentation and recombination testing, the SAP is defined below these functions.

Notional UT:

No explicit Upper Tester (UT) exists in the system under test. Nevertheless, some specific actions to cover implicit send events and to obtain feedback informations are necessary for the need of the test procedures. A black box covering these requirements is used in the SUT as a notional UT as defined in ISO 9646. This notional UT is part of the test system.

4.2 Test configurations

4.2.1 Test configurations for AT

Two configurations are defined for AT testing.



Figure 2: Normal configuration for AT

The normal configuration is defined and used for functionality that requires only interaction between the tested AT and one AP.

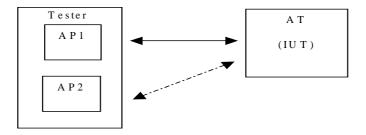


Figure 3: Load-levelling configuration for AT

The load-levelling configuration is used when the AT has to interact with two AP. In that case, the two simulated AP are configurable to be either a multi-sector AP or two separate AP. The concurrent TTCN facilities are used in this configuration.

4.2.2 Test configurations for AP

One configuration is defined for AP testing.



Figure 4: Normal configuration for AP

The normal configuration is defined and used for functionality that requires only interaction between the tested AP and one AT.

5 Untestable Test Purposes (TP)

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

Table 1: Untestable TP

Test purpose	Reason

6 ATS conventions

The ATS conventions are intended to give a better understanding of the ATS but they also describe the conventions made for the development of the ATS. These conventions shall be considered during any later maintenance or further development of the ATS.

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 document ETS 300 406 [2] was considered.

6.1 Naming conventions

6.1.1 Declarations part

This clause describes the naming conventions chosen for the elements of the ATS declarations part.

6.1.1.1 General

The following general rules apply for the name giving in the declarations part. All type definitions (simple type definitions, structured type definitions, ASP type definitions and PDU type definitions) shall be written in uppercase.

All element names (structured type definition), parameter names (ASP type definition) and field names (PDU type definition) shall be written in lowercase.

Predefined types (e.g. BITSTRING [8]) are never used in structured type definitions, ASP type definitions or PDU type definitions. Simple types are used instead.

6.1.1.2 Test suite operations definition

The test suite operation identifiers are composed of substrings in lowercase letters, except for standard prefix "TSO_". An underscore character ("_") separates each substring.

EXAMPLE: TSO_substring

6.1.1.3 Test suite parameter declarations

The test suite parameter identifiers are composed of substrings in lowercase letters, except for the standard prefix "TSP_". An underscore character ("_") separates each substring.

EXAMPLE 1: TSP t wait.

If the test suite parameter references a Protocol Implementation Conformance Statement (PICS) item, the letter "C" is added to the standard prefix.

EXAMPLE 2: TSPC_encryption_support.

If the test suite parameter references a PIXIT item, the letter "X" is added to the standard prefix.

EXAMPLE 3: TSPX_pid.

6.1.1.4 Test case selection expression definition

The test case selection expression identifiers are composed of substrings in lowercase letters, beginning with the prefix "TCS_". An underscore character ("_") separates each substring.

6.1.1.5 Test suite constant declarations

The test suite constant identifiers are composed of substrings in lowercase letters, except for the prefix "TSC_". An underscore character ("_") separates each substring.

If the test suite constant represents a system parameter, the complete name defined in the protocol standard is used.

6.1.1.6 Test suite variable declarations

The test suite variable identifiers are composed of substrings in lowercase letters, except for the prefix "TSV_". An underscore character ("_") separates each substring.

Complete names as defined in the protocol standard are used.

6.1.1.7 Test case variable declarations

The test case variable identifiers are composed of substrings in lowercase letters, except for the prefix "TCV_". An underscore character ("_") separates each substring.

Complete names as defined in the protocol standard are used.

6.1.1.8 Timer declarations

Two types of timers can be identified:

- 1) Standardized:
 - Those defined in the protocol standard, e.g. T201. They use exactly the same name as in the standard.

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: T201_max, T201_min, and T201.

- 2) Not standardized:
 - Those not defined in the protocol 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 lowercase letters.

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

6.1.1.9 ASP type definitions

The general conventions in clause 6.1.1.1 apply.

The identifier of an ASP type uses the same name as the name defined in the protocol standard.

6.1.1.10 PDU type definitions

The general conventions in clause 6.1.1.1 apply.

The PDU type identifier shall identify the related structure or type as defined in the protocol standard.

6.1.1.11 CM type definitions

The CM types are defined as the ASP types without sub-fields.

6.1.1.12 Alias definitions

Alias definitions are not used.

6.1.2 Constraints part

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

6.1.2.1 General

Constraints shall be written with the first letter in uppercase, and the rest in lowercase.

The first part of the constraint declaration identifier name is equivalent to the corresponding type identifier used in the declaration part. The second part of the name describes the content of this constraint.

EXAMPLE: Declaration part: HEADER_FIELD

Constraint part: Header_field_paging

6.1.3 Dynamic part

This clause describes the naming conventions used for the elements of the ATS dynamic part.

6.1.3.1 General

All test cases shall be listed in the order in which they appear in the Test Suite Structure (TSS) and TP document.

6.1.3.2 Test Case (TC) identifier

The identifier of the test case is built in the same way as for the test purpose described in TS 102 149-2 [8], with the exception that "TP" is replaced by "TC". The identifier of a TC is built according to table 2.

Table 2: TC naming convention

Identifier: TC_ <st>_<pg>_<fm>_<x>_<nr< th=""><th>nn></th><th></th></nr<></x></fm></pg></st>	nn>	
<st> = side type</st>	AP	Access Point
	AT	Access Termination
<pg> = protocole group</pg>	INC	INitialization Control function
	RRC	Radio Resource Control function
	SEC	SEcurity Control function
	COC	COnnection Control function
<fm> = functional module</fm>	FS	Frequency Scanning
	SA	Synchronization Acquisition
	SI	Sector Identification
	PA	UL and DL Parameters Acquisition
	RA	RAnging
	PN	Physical capabilities Negotiation
	OC	Other Capabilities negotiation
	LS	Link Supervision
	PT	Change of PHY Mode, ATPC and ATTC
	LL	Load-Levelling
	IA	Initial Authorization
	RE	REauthorization
	KR	Key Requests
	KU	Traffic Encryption Keys Usage
	CE	Connection Establishment
	CM	Connection Modification
	CT	Connection Termination
	MC	MultiCast
x = Type of testing	BV	Valid Behaviour tests
	TI	Timer tests
	ВО	Inoportune Behaviour tests
<nnn> = sequential number</nnn>	(000 to 999)	Test Case number

 $EXAMPLE: \qquad TP\ identifier: \quad TP/AT/RRC/KR/BV-010.$

TC identifier: TC_AT_RRC_KR_BV_010.

6.1.3.3 Test step identifier

The test step identifier is built of substrings in lowercase letters, preceded by a string of uppercase letters. Underscore characters join the substrings. The first substring indicates the main function of the test step; e.g. PR for preamble, PO for postamble, LTS for local tree and STP for general test step. The second substring indicates the purpose of the step.

EXAMPLE: PO_release_duc.

6.1.3.4 Default identifier

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

6.1.3.5 Label identifier

The identifiers in the label column is built according to table 3:

Table 3: Naming convention for verdict assignment identifier

Identifier:	<table><nn></nn></table>			
	<table> = type of table</table>	TB	Test Body	
		CS	Check State test step	
		DF	DeFault	
		PO	POstamble	
		PR	PReamble	
		TS	TestStep	
	<nn> = sequential number</nn>	(00 to 99)	Label number	

6.1.3.6 ATS abbreviations

These abbreviations are used to shorten identifier names:

addr address acknowledgement ack bear bearer capability cap cfm confirm channel chn connection con control ctrl establish est ext extension id identification ind indication info information max maximum min minimum parameter par proprietary prop release rel request req response rsp standard system sys

6.2 Implementation conventions

6.2.1 Declaration part

The comment line of single element 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 standards. 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. ASP) is used to reference to the protocol standard.

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

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

6.2.2 Constraint part

The ASPs and PDUs are defined in a way that all relevant parameters/fields 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 test specifications.

The Comment line of a constraint always contains a reference to the relevant protocol standard.

The detailed comment footer is used to describe any particularity of the table.

6.2.3 Dynamic part

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

All invalid events are handled in the default tree. Only FAIL or INCONC verdicts are assigned in the default tree.

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

All verdict assignments are labelled. According to ISO 9646-3 [5], annex E, clause E.2, labels should be written to the conformance log. This allows, for example, to identify were the test failed. To allow an exact identification of the table, in which the verdict was assigned, the convention described in clause 6.1.3.5 is applied.

TP, which are listed in the untestable TP list in clause 5, are not considered in the ATS, thus these TC identifiers are missing in the ATS and the numbering of the TC is not always continuous.

7 Abstract testing service primitives

Void.

Annex A (normative): Abstract Test Suite (ATS)

This ATS has been produced using the Tree and Tabular Combined Notation (TTCN) according to ISO/IEC 9646-3 [5].

The ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. The ATS itself contains a test suite overview part, which provides additional information and references.

A.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representations of the ATS is contained in Adobe Portable Document FormatTM files hipA_v011.PDF and is contained in the compressed archive file named ts_10214903v010301p0.ZIP, which accompanies the present document and where 010301 represents the version of the present document. The PDF file contains also the TTCN.GR representations for all other parts of the Hiperaccess Specifications testing.

A.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representations corresponding to the ATS is contained in ASCII file hipA_v011.MP and is contained in the compressed archive file named ts_10214903v010301p0.ZIP, which accompanies the present document and where 010301 represents the version of the present document. The MP file contains also the TTCN.MP representations for all other parts of the Hiperaccess Specifications testing.

A.3 The ASN.1 specification of the Hiperaccess protocol

The HAprotocolPrimitives.asn contains the ASN.1 specification of Hiperaccess protocol messages and their parameters and is contained in the compressed archive file named ts_10214903v010301p0.ZIP, which accompanies the present document and where 010301 represents the version of the present document.

Annex B (normative): Partial PIXIT proforma for HA DLC AT

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. Any needed additional information can be found in the ISO/IEC 9646-6.

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:	TS 102 000
Protocol to be tested:	
ATS Specification:	TS 102 149-3
Abstract Test Method:	TS 102 149-3, clause 4

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:	BRAN HA - DLC layer TS 102 000
Version:	
PICS References:	

B.6.2 IUT information

Table B.7: Generic parameters

TSPX_authorisation_implemented	BOOLEAN	TRUE if authorisation shall be in use for testing, FALSE otherwise.
TSPX_Triple_Des	BOOLEAN	Indicate if the triple DES encryption is implemented and in use.
TSPX_Acid	AssignedCid	AssignedCid to be used in connection mangement.
TSPX_dataCID_other	AssignedCid	AssignedCid to be used in connection mangement for not assigned Cid.
TSPX_Said	Said	Said to be used in connection mangement.
TSPX_Said_ATM	Said	Said for ATM to be used in connection mangement.
TSPX_Said2_ATM	Said	Said for ATM to be used in connection mangement.
TSPX_Said_ETH	Said	Said for Ethernet to be used in connection mangement.
TSPX_Said2_ETH	Said	Said for Ethernet to be used in connection mangement.
TSPX_SCId	SCId	QOS class for testing purposes.
TSPX_SCId2	SCId	Second QOS class for testing purposes.
TSPX_SCId_ATM	SCId	QOS class for ATM for testing purposes.
TSPX_SCId2_ATM	SCId	Second QOS class for ATM for testing purposes.
TSPX_SCId_ETH	SCId	QOS class for Ethernet for testing purposes.
TSPX_SCId2_ETH	SCId	Second QOS class for Ethernet for testing purposes.
TSPX_Stub	Stub	Some data to send.
TSPX_Stub1	Stub	Part 1 of big message to send.
TSPX_Stub2	Stub	Part 2 of big message to send.
TSPX_Stub3	Stub	Part 3 of big message to send.
TSPX_Stub4	Stub	Part 4 of big message to send.
TSPX_Stub5	Stub	Part 5 of big message to send.
TSPX_DownlinkDescr	DirectionDescr	Downlink Description to be used to setup a one-way Connection.
TSPX_DownlinkPhyMode	DownlinkPhyMode	DownlinkPhyMode for testing purpose.
TSPX_AT_MAC_Addr	AtMacAddress	AT MAC address for TID assignment and load-levelling.
TSPX_PairOfCarrierFrequencies	PairOfCarrierFrequencies	PairOfCarrierFrequencies for load-levelling.
TSPX_ss	INTEGER	Used to construct a valid Ranging Grant message.
TSPX_uiuc	UIUC	UIUC for a normal grant to send.
TSPX_RangingStatus	RangingStatus	RangingStatus for testing purpose.
TSPX_SecurityUse	SecurityUse	SecurityUse for testing purpose.
TSPX_Fine_Tune	BOOLEAN	For testing only. Test equipment must send Ranging messages, which require fine-tuning.

Table B.8: Framing construction informations

TSPX_maxNbrDIUC	INTEGER	Maximum number of DL maps entries to be expected for testing proper frame formation.	
TSPX_maxNbrARQ	INTEGER	Maximum number of ARQ entries to be expected for testing proper frame formation.	
TSPX_maxNbrWindow	INTEGER	Maximum number of window entries to be expected for testing proper frame formation.	
TSPX_maxNbrULmaps	INTEGER	Maximum number of UL maps entries to be expected for testing proper frame formation.	
TSPX_maxNbrTDMA	INTEGER	Maximum number of TDMA maps entries to be expected for testing proper frame formation.	
TSPX_FrameCountDur	INTEGER	Duration in which to count valid number of frames.	
TSPX_FrameCountErrorPrcnt	INTEGER	Percentage, which frame count, can be off because of test equipment timing delays.	
TSPX_FrameCountTol	INTEGER	Tolerance in frames which a frame count can be off and still yield an accurate result. Compensates for test equipment's timing delays and variations.	
TSPX_FrameLoopMax	INTEGER	The total number of frames to be sampled to determine if frames are valid.	
TSPX_ValidFrameTestDur	INTEGER	The duration over which one frame is to be randomly selected to determine validity.	
TSPX_GBI_Period	INTEGER	Period in s in which a GBI is transmitted.	
TSPX_GBI_Dur_Tol	INTEGER	Tolerance in percent to establish window in which GBI arrives. Used for both min and max window values.	
TSPX_GBI_samples	INTEGER	Number of times to test successive transmissions of GBI.	
TSPX_Wait_Invite_Dur	INTEGER	Time to wait for a Ranging Invitation message. AP sends this upon operator instruction or configuration information. Period is not part of specification.	
TSPX_Wait_Range_Gr_Dur	INTEGER	Time to wait for a Ranging Grant to arrive in a frame following a Ranging message.	
TSPX_NOAC_long_dur	INTEGER	Time to wait for IUT reaction, relatively long.	
TSPX_RangingGrants	INTEGER	The number of times to receive repeated ranging grants from AP if the peer does not reply to initial Ranging Invitation message and grants.	
TSPX_RangingInvites	INTEGER	The number of times to receive repeated Ranging Invitation messages from AP if the peer does not reply to initial Ranging Invitation message and grants.	

Table B.9: Timer parameters

TSPX_RIcConnectionAdditionAckDUR	INTEGER	Timer duration.
TSPX_RlcConnectionChangeAckDUR	INTEGER	Timer duration.
TSPX_RIcConnectionDeletionAckDUR	INTEGER	Timer duration.
TSPX_RIcConnectionDeletionInitDUR	INTEGER	Timer duration.
TSPX_RIcConnectionAdditionInitDUR	INTEGER	Timer duration.
TSPX_RlcConnectionChangeInitDUR	INTEGER	Timer duration.
TSPX_RlcConnectionAdditionSetupDUR	INTEGER	Timer duration.
TSPX_RlcConnectionChangeSetupDUR	INTEGER	Timer duration.
TSPX_TimerTolerance	INTEGER	Percentage value to adjust specification timers for test
		conditions.

Table B.10: Loop control parameters

TSPX_ConnAddSetup_Loops	INTEGER	Number of times to test that RIcConnectionAdditionSetup PDU is repeated if a corresponding Ack is not received.
TSPX_ConnChangeSetup_Loops	INTEGER	Number of times to test that RlcConnectionChangeSetup PDU is repeated if a corresponding Ack is not received.
TSPX_ConnReleaseInit_Loops	INTEGER	Number of times to test that RlcConnectionDeletionInit PDU is repeated if a corresponding Ack is not received.
TSPX_ConnAddAck_Loops	INTEGER	Number of times to test that RlcConnectionAdditionAck PDU is repeated if a corresponding RlcConnectionAdditionSetup is sent before the expiry of the corresponding timer.
TSPX_ConnAddInit_Loops	INTEGER	Number of times to test that RlcConnectionAdditionInit PDU is repeated if a corresponding RlcConnectionAdditionSetup is not received.
TSPX_ConnChgInit_Loops	INTEGER	Number of times to test that RlcConnectionChangeInit PDU is repeated if a corresponding RlcConnectionChangeSetup is not received.

Table B.11: Ranging Invitation message parameters

TSPX_AT_TID	Tid	Tid to be used to construct a valid Ranging Invitation message.
TSPX_BasicCid	BasicCid	BasicCid to be used to construct a valid Ranging Invitation message.
TSPX_PrimaryCid	PrimaryCid	PrimaryCid to be used to construct a valid Ranging Invitation message.
TSPX_SecondaryCid	SecondaryCid	SecondaryCid to be used to construct a valid Ranging Invitation message.
TSPX_apTxPowerIndication	ApTxPowerIndication	ApTxPowerIndication to be used to construct a valid Ranging Invitation message.
TSPX_basicCaid	Caid	BasicCaid.
TSPX_primaryCaid	Caid	PrimaryCaid.
TSPX_secondaryCaid	Caid	SecondaryCaid.
TSPX_assignedCaid	Caid	AssignedCaid.
TSPX_assignedCaid_ATM	Caid	AssignedCaid for ATM.
TSPX_assignedCaid2_ATM	Caid	AssignedCaid for ATM.
TSPX_assignedCaid_ETH	Caid	AssignedCaid for Ethernet.
TSPX_assignedCaid2_ETH	Caid	AssignedCaid for Ethernet.

Table B.12: Ranging Continue message parameters

TSPX_TimingAdjustRanging	TimingAdjustRanging	TimingAdjustRanging to be used to construct a valid
		Ranging Continue message.
TSPX_UplinkPowerInc	UplinkPowerInc	UplinkPowerInc to be used to construct a valid Ranging
	•	Continue message.

Table B.13: RIcMeasurementReportData message parameters

TSPX_CnrMeasured	CnrMeasured	CnrMeasured to be used to construct a valid RIcMeasurementReportData message.
TSPX_RxPowerMeasured	RxPowerMeasured	RxPowerMeasured to be used to construct a valid RIcMeasurementReportData message.
TSPX_TxPowerMeasured	TxPowerMeasured	TxPowerMeasured to be used to construct a valid RIcMeasurementReportData message.
TSPX_TxPowerMargin	TxPowerMargin	TxPowerMargin to be used to construct a valid RlcMeasurementReportData message.
TSPX_UplinkPhyMode	UplinkPhyMode	UplinkPhyMode to be used to construct a valid RIcMeasurementReportData message.
TSPX_MaxUplinkPhyMode	UplinkPhyMode	MaxUplinkPhyMode to be used to construct a valid RIcMeasurementReportData message.

Table B.14: RIcPhyCapabilitiesCnf message parameters

TSPX_Downlink64QamUse	Downlink64QamUse	Downlink64QamUse to be used for RlcPhyCapabilitiesCnf
		message.
TSPX_Uplink16QamUse	Uplink16QamUse	Uplink16QamUse to be used for RlcPhyCapabilitiesCnf
		message.
TSPX_UplinkTurboEncUse	UplinkTurboEncUse	UplinkTurboEncUse to be used for RlcPhyCapabilitiesCnf
		message.
TSPX_UplinkPreambleLength	UplinkPreambleLength	UplinkPreambleLength to be used for
		RlcPhyCapabilitiesCnf message.
TSPX_UplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMaxQpsk to be used for
		RlcPhyCapabilitiesCnf message.
TSPX_UplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax16Qam to be used for
		RlcPhyCapabilitiesCnf message.
TSPX_InitializationStatus	InitializationStatus	InitializationStatus to be used for RlcPhyCapabilitiesCnf
		message.

Table B.15: RIcPhyCapabilitiesInfo message parameters

TSPX_downlink64QamSupport	Downlink64QamSupport	Downlink64QamSupport to be used for RIcPhyCapabilitiesInfo message.
TSPX_uplink16QamSupport	Uplink16QamSupport	Uplink16QamSupport to be used for RIcPhyCapabilitiesInfo message.
TSPX_uplinkTurboEncSupport	UplinkTurboEncSupport	UplinkTurboEncSupport to be used for RIcPhyCapabilitiesInfo message.
TSPX_uplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMaxQpsk to be used for RIcPhyCapabilitiesInfo message.
TSPX_uplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax16Qam to be used for RIcPhyCapabilitiesInfo message.
TSPX_numberSaidSupport	NumberSaidSupport	NumberSaidSupport to be used for RIcPhyCapabilitiesInfo message.
TSPX_terminalType	TerminalType	TerminalType to be used for RlcPhyCapabilitiesInfo message.
TSPX_PairOfCarrierFrequencies1	PairOfCarrierFrequencies	PairOfCarrierFrequencies 1 to be used for RIcPhyCapabilitiesInfo message.
TSPX_PairOfCarrierFrequencies2	PairOfCarrierFrequencies	PairOfCarrierFrequencies 2 to be used for RIcPhyCapabilitiesInfo message.

Table B.16: RIcAuthKeyCmd message parameters

TSPX_HmacOfAuthKey	HmacOfAuthKey	HmacOfAuthKey for inopportune RlcAuthKeyCmd.
TSPX_AuthKeyEncrypted	AuthKeyEncrypted	AuthKeyEncrypted for inopportune RlcAuthKeyCmd.
TSPX_Nonce2	Nonce	Nonce for inopportune RlcAuthKeyCmd.
TSPX HmacOfAuthKev invalid	HmacOfAuthKev	Provide an invalid HmacOfAuthKey for testing retransmission.

Table B.17: RIcAuthReply message parameters

ITSPX said	ISaid	ISaid for sending RIcAuthReply messages.
IIOIA Salu	IJaiu	IOGIU IVI SCHUIHU IXICAUHIXEDIV HIESSAUES.

Table B.18: RIcAuthCertificateInfo message parameters

TSPX_ManufacturerCertificate	ManufacturerCertificate	ManufacturerCertificate for sending RlcAuthCertificateInfo
		message.
TSPX_AtCertificate	AtCertificate	AtCertificate for sending RIcAuthCertificateInfo message.
TSPX_AtCertificate_Invalid	AtCertificate	Invalid AtCertificate for sending RlcAuthCertificateInfo
		message.

Table B.19: RIcTekAllocationFirst message or RIcTekAllocationRefresh message parameters

TSPX_TekEncrypted1	TekEncrypted	TekEncrypted1 for TEK Allocation first.
TSPX_HmacOfTek1	HmacOfTek	HmacOfTek1 for TEK Allocation first.
TSPX_HmacOfTek1_Invalid	HmacOfTek	HmacOfTek1 invalid for TEK Allocation first.
TSPX_lvp1	lvp	Ivp1 for TEK Allocation first.
TSPX_TekEncrypted2	TekEncrypted	TekEncrypted2 for TEK Allocation first.
TSPX_HmacOfTek2	HmacOfTek	HmacOfTek2 for TEK Allocation first.
TSPX_lvp2	lvp	Ivp2 for TEK Allocation first.
TSPX_EksAllocated	EksAllocated	EksAllocated for TEK Allocation first.
TSPX_Nonce	Nonce	Nonce for TEK Allocation first.

Table B.20: RIcOtherCapabilitiesInfo message parameters

TSPX_numberUplinkConnsSupport	NumberUplinkConnsSupport	NumberUplinkConnsSupport for sending RlcOtherCapabilitiesInfo message.
TSPX_numberDownlinkConnsSupport	NumberDownlinkConnsSupport	NumberDownlinkConnsSupp for sending RlcOtherCapabilitiesInfo message.
TSPX_numberConnAggsSupport	NumberConnAggsSupport	NumberConnAggsSupport for sending RlcOtherCapabilitiesInfo message.
TSPX_numberConnsPerConnAggSupport	NumberConnsPerConnAggSupport	NumberConnsPerConnAggSupport for sending RlcOtherCapabilitiesInfo message.
TSPX_TerminalClCapabilities	TerminalClCapabilities	TerminalClCapabilities for sending RlcOtherCapabilitiesInfo message.
TSPX_crSupport	CrSupport	CrSupport for sending RIcOtherCapabilitiesInfo message.
TSPX_TripleDesSupport	TripleDesSupport	TripleDesSupport for sending RIcOtherCapabilitiesInfo message.

Table B.21: RIcOtherCapabilitiesCnf message parameters

TSPX_numberUplinkConnsUse	NumberUplinkConnsUse	NumberUplinkConnsUse to be used for sending RIcOtherCapabilitiesCnf
		message.
TSPX_numberDownlinkConnsUse	NumberDownlinkConnsUse	NumberDownlinkConnsUse to be used for sending RIcOtherCapabilitiesCnf message.
TSPX_numberConnAggsUse	NumberConnAggsUse	NumberConnAggsUse to be used for sending RIcOtherCapabilitiesCnf message.
TSPX_numberConnsPerConnAggUse	NumberConnsPerConnAggUse	NumberConnsPerConnAggUse to be used for sending RIcOtherCapabilitiesCnf message.
TSPX_tripleDesUse	TripleDesUse	TripleDesUse to be used for sending RIcOtherCapabilitiesCnf message.

Table B.22: Connection establishment parameters

TSPX_Clid	Clid	Clid to be used in connection establishment.
TSPX_Clid_ATM	Clid	Clid for ATM to be used in connection
		establishment.
TSPX_Clid2_ATM	Clid	Clid for ATM to be used in connection establishment.
TSPX_Clid_ETH	Clid	Clid for Ethernet to be used in connection establishment.
TSPX_Clid2_ETH	Clid	Clid for Ethernet to be used in connection establishment.
TSPX_Direction	DirectionChoice	Direction to be used in connection establishment.
TSPX Direction2	DirectionChoice	Direction to be used in connection establishment.
TSPX_Direction_ATM	DirectionChoice	Direction for ATM to be used in connection establishment.
TSPX_Direction2_ATM	DirectionChoice	Direction for ATM to be used in connection establishment.
TSPX_Direction_ETH	DirectionChoice	Direction for Ethernet to be used in connection establishment.
TSPX_Direction2_ETH	DirectionChoice	Direction for Ethernet to be used in connection establishment.
TSPX_ArqUsage	ArqUsage	ARQ to be used in connection establishment.
TSPX_ArqUsage2	ArqUsage	ARQ to be used in connection establishment.
TSPX_ArqUsage_ATM	ArqUsage	ARQ for ATM to be used in connection establishment.
TSPX_ArqUsage2_ATM	ArqUsage	ARQ for ATM to be used in connection establishment.
TSPX_ArqUsage_ETH	ArqUsage	ARQ for Ethernet to be used in connection establishment.
TSPX_ArqUsage2_ETH	ArqUsage	ARQ for Ethernet to be used in connection establishment.
TSPX_connectionClParameters	ConnectionCIParameters	ConnectionClParameters to be used in connection establishment.
TSPX_connectionClParameters1	ConnectionCIParameters	ConnectionClParameters to be used in connection establishment.
TSPX_connectionCIParameters2	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.
TSPX_connectionClParameters_ATM	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.
TSPX_connectionCIParameters2_ATM	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.
TSPX_connectionClParameters_ETH	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.
TSPX_connectionCIParameters2_ETH	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.
TSPX_pmAssociation	PmAssociation	PmAssociation to be used in connection establishment.
TSPX_pmAssociation_ATM	PmAssociation	PmAssociation for ATM to be used in connection establishment.
TSPX_pmAssociation2_ATM	PmAssociation	PmAssociation for ATM to be used in connection establishment.
TSPX_pmAssociation_ETH	PmAssociation	PmAssociation for Ethernet to be used in connection establishment.
TSPX_pmAssociation2_ETH	PmAssociation	PmAssociation for Ethernet to be used in connection establishment.
TSPX_ContentionFlag	ContentionFlag	ContentionFlag to be used in connection establishment.
TSPX_ContentionFlag_ATM	ContentionFlag	ContentionFlag for ATM to be used in connection establishment.
TSPX_ContentionFlag2_ATM	ContentionFlag	ContentionFlag for ATM to be used in connection establishment.
TSPX_ContentionFlag_ETH	ContentionFlag	ContentionFlag for Ethernet to be used in connection establishment.
TSPX_ContentionFlag2_ETH	ContentionFlag	ContentionFlag for Ethernet to be used in connection establishment.

Table B.23: Connection change parameters

T071/ 01/10	0	land to the state of the state
ITSPX Clid2	lClid	Clid to be used in connection change.
101 /_0114 <u>_</u>	Ona	ona to be acca in connection change.

Table B.24: RIcHandoverCmd message parameters

TSPX_Apcld Apcld	Apcld to be used for sending RlcHandoverCmd message.
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Annex C (normative): Partial PIXIT proforma for HA DLC AP

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. Any needed additional information can be found in the ISO/IEC 9646-6.

C.1 Identification summary

Table C.1

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

C.2 ATS summary

Table C.2

Protocol Specification:	TS 102 000
Protocol to be tested:	
ATS Specification:	TS 102 149-3
Abstract Test Method:	TS 102 149-3, clause 4

C.3 Test laboratory

Table C.3

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

C.4 Client identification

Table C.4

Client Identification:	
Client Test manager:	
Test Facilities required:	

C.5 SUT

Table C.5

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

C.6 Protocol layer information

C.6.1 Protocol identification

Table C.6

Name:	BRAN HA - DLC layer TS 102 000
Version:	
PICS References:	

C.6.2 IUT information

Table C.7: Generic parameters

TSPX_authorisation_implemented	BOOLEAN	TRUE if authorisation shall be in use for testing,
	2001 2001	FALSE otherwise.
TSPX_Triple_Des	BOOLEAN	Indicate if the triple DES encryption is
		implemented and in use.
TSPX_Acid	AssignedCid	AssignedCid to be used in connection
		mangement.
TSPX_dataCID_other	AssignedCid	AssignedCid to be used in connection
		mangement for not assigned Cid.
TSPX_Said	Said	Said to be used in connection mangement.
TSPX_Said_ATM	Said	Said for ATM to be used in connection
		mangement.
TSPX_Said2_ATM	Said	Said for ATM to be used in connection
		mangement.
TSPX_Said_ETH	Said	Said for Ethernet to be used in connection
		mangement.
TSPX_Said2_ETH	Said	Said for Ethernet to be used in connection
		mangement.
TSPX_SCId	SCId	QoS class for testing purposes.
TSPX_SCId2	SCId	Second QoS class for testing purposes.
TSPX_SCId_ATM	SCId	QoS class for ATM for testing purposes.
TSPX_SCId2_ATM	SCId	Second QoS class for ATM for testing
,	00.0	purposes.
TSPX_SCId_ETH	SCId	QoS class for Ethernet for testing purposes.
TSPX SCId2 ETH	SCId	Second QoS class for Ethernet for testing
		purposes.
TSPX_Stub	Stub	Some data to send.
TSPX_Stub1	Stub	Part 1 of big message to send.
TSPX_Stub2	Stub	Part 2 of big message to send.
TSPX_Stub3	Stub	Part 3 of big message to send.
TSPX_Stub4	Stub	Part 4 of big message to send.
TSPX_Stub5	Stub	Part 5 of big message to send.
TSPX_DownlinkDescr	DirectionDescr	Downlink Description to be used to setup a
TOT X_DOWNIIIIRDesci	DirectionDescr	one-way Connection.
TSPX_DownlinkPhyMode	DownlinkPhyMode	DownlinkPhyMode for testing purpose.
TSPX_AT_MAC_Addr	AtMacAddress	AT MAC address for TID assignment and load-
TSPX_AT_MAC_Addi	AliviacAddress	levelling.
TCDV DaimOfCamianFraguesia	DeirOfCerrie rEre sucer eiee	
TSPX_PairOfCarrierFrequencies	PairOfCarrierFrequencies	PairOfCarrierFrequencies for load-levelling.
TSPX_ss	INTEGER	Used to construct a valid Ranging Grant message.
TSPX_uiuc	UIUC	UIUC for a normal grant to send.
TO A_I IIIE_I WIE	BOOLLAIN	
TSPX_RangingStatus TSPX_SecurityUse TSPX_Fine_Tune	RangingStatus SecurityUse BOOLEAN	RangingStatus for testing purpose. SecurityUse for testing purpose. For testing only. Test equipment must send Ranging messages, which require fine-tuning.

Table C.8: Framing construction informations

TSPX_maxNbrDIUC	INTEGER	Maximum number of DL maps entries to be expected for testing proper frame formation.	
TSPX_maxNbrARQ	INTEGER	Maximum number of ARQ entries to be expected for testing proper frame formation.	
TSPX_maxNbrWindow	INTEGER	Maximum number of window entries to be expected for testing proper frame formation.	
TSPX_maxNbrULmaps	INTEGER	Maximum number of UL maps entries to be expected for testing proper frame formation.	
TSPX_maxNbrTDMA	INTEGER	Maximum number of TDMA maps entries to be expected for testing proper frame formation.	
TSPX_FrameCountDur	INTEGER	Duration in which to count valid number of frames.	
TSPX_FrameCountErrorPrcnt	INTEGER	Percentage, which frame count, can be off because of test equipment timing delays.	
TSPX_FrameCountTol	INTEGER	Tolerance in frames which a frame count can be off and still yield an accurate result. Compensates for test equipment's timing delays and variations.	
TSPX_FrameLoopMax	INTEGER	The total number of frames to be sampled to determine if frames are valid.	
TSPX_ValidFrameTestDur	INTEGER	The duration over which one frame is to be randomly selected to determine validity.	
TSPX_GBI_Period	INTEGER	Period in s in which a GBI is transmitted.	
TSPX_GBI_Dur_Tol	INTEGER	Tolerance in percent to establish window in which GBI arrives. Used for both min and max window values.	
TSPX_GBI_samples	INTEGER	Number of times to test successive transmissions of GBI.	
TSPX_Wait_Invite_Dur	INTEGER	Time to wait for a Ranging Invitation message. AP sends this upon operator instruction or configuration information. Period is not part of specification.	
TSPX_Wait_Range_Gr_Dur	INTEGER	Time to wait for a Ranging Grant to arrive in a frame following a Ranging message.	
TSPX_NOAC_long_dur	INTEGER	Time to wait for IUT reaction, relatively long.	
TSPX_RangingGrants	INTEGER	The number of times to receive repeated ranging grants from AP if the peer does not reply to initial Ranging Invitation message and grants.	
TSPX_RangingInvites	INTEGER	The number of times to receive repeated Ranging Invitation messages from AP if the peer does not reply to initial Ranging Invitation message and grants.	

Table C.9: Timer parameters

TSPX_RIcConnectionAdditionAckDUR	INTEGER	Timer Duration.
TSPX_RlcConnectionChangeAckDUR	INTEGER	Timer Duration.
TSPX_RIcConnectionDeletionAckDUR	INTEGER	Timer Duration.
TSPX_RlcConnectionDeletionInitDUR	INTEGER	Timer Duration.
TSPX_RIcConnectionAdditionInitDUR	INTEGER	Timer Duration.
TSPX_RlcConnectionChangeInitDUR	INTEGER	Timer Duration.
TSPX_RlcConnectionAdditionSetupDUR	INTEGER	Timer Duration.
TSPX_RlcConnectionChangeSetupDUR	INTEGER	Timer Duration.
TSPX_TimerTolerance	INTEGER	Percentage value to adjust specification timers for test
		conditions.

Table C.10: Loop control parameters

TSPX_ConnAddSetup_Loops	INTEGER	Number of times to test that RIcConnectionAdditionSetup PDU is repeated if a corresponding Ack is not received.
TSPX_ConnChangeSetup_Loops	INTEGER	Number of times to test that RlcConnectionChangeSetup PDU is repeated if a corresponding Ack is not received.
TSPX_ConnReleaseInit_Loops	INTEGER	Number of times to test that RlcConnectionDeletionInit PDU is repeated if a corresponding Ack is not received.
TSPX_ConnAddAck_Loops	INTEGER	Number of times to test that RlcConnectionAdditionAck PDU is repeated if a corresponding RlcConnectionAdditionSetup is sent before the expry of the corresponding timer.
TSPX_ConnAddInit_Loops	INTEGER	Number of times to test that RlcConnectionAdditionInit PDU is repeated if a corresponding RlcConnectionAdditionSetup is not received.
TSPX_ConnChgInit_Loops	INTEGER	Number of times to test that RlcConnectionChangeInit PDU is repeated if a corresponding RlcConnectionChangeSetup is not received.

Table C.11: Ranging Invitation message parameters

TSPX_AT_TID	Tid	Tid to be used to construct a valid Ranging Invitation message.
TSPX_BasicCid	BasicCid	BasicCid to be used to construct a valid Ranging Invitation message.
TSPX_PrimaryCid	PrimaryCid	PrimaryCid to be used to construct a valid Ranging Invitation message.
TSPX_SecondaryCid	SecondaryCid	SecondaryCid to be used to construct a valid Ranging Invitation message.
TSPX_apTxPowerIndication	ApTxPowerIndication	ApTxPowerIndication to be used to construct a valid Ranging Invitation message.
TSPX_basicCaid	Caid	BasicCaid.
TSPX_primaryCaid	Caid	PrimaryCaid.
TSPX_secondaryCaid	Caid	SecondaryCaid.
TSPX_assignedCaid	Caid	AssignedCaid.
TSPX_assignedCaid_ATM	Caid	AssignedCaid for ATM.
TSPX_assignedCaid2_ATM	Caid	AssignedCaid for ATM.
TSPX_assignedCaid_ETH	Caid	AssignedCaid for Ethernet.
TSPX_assignedCaid2_ETH	Caid	AssignedCaid for Ethernet.

Table C.12: Ranging Continue message parameters

TSPX_TimingAdjustRanging	TimingAdjustRanging	TimingAdjustRanging to be used to construct a valid
		Ranging Continue message.
TSPX_UplinkPowerInc	UplinkPowerInc	UplinkPowerInc to be used to construct a valid Ranging
	•	Continue message.

Table C.13: RIcMeasurementReportData message parameters

TSPX_CnrMeasured	CnrMeasured	CnrMeasured to be used to construct a valid RIcMeasurementReportData message.
TSPX_RxPowerMeasured	RxPowerMeasured	RxPowerMeasured to be used to construct a valid RIcMeasurementReportData message.
TSPX_TxPowerMeasured	TxPowerMeasured	TxPowerMeasured to be used to construct a valid RIcMeasurementReportData message.
TSPX_TxPowerMargin	TxPowerMargin	TxPowerMargin to be used to construct a valid RIcMeasurementReportData message.
TSPX_UplinkPhyMode	UplinkPhyMode	UplinkPhyMode to be used to construct a valid RIcMeasurementReportData message.
TSPX_MaxUplinkPhyMode	UplinkPhyMode	MaxUplinkPhyMode to be used to construct a valid RIcMeasurementReportData message.

Table C.14: RIcPhyCapabilitiesCnf message parameters

TSPX_Downlink64QamUse	Downlink64QamUse	Downlink64QamUse to be used for RlcPhyCapabilitiesCnf
		message.
TSPX_Uplink16QamUse	Uplink16QamUse	Uplink16QamUse to be used for RlcPhyCapabilitiesCnf
		message.
TSPX_UplinkTurboEncUse	UplinkTurboEncUse	UplinkTurboEncUse to be used for RlcPhyCapabilitiesCnf
		message.
TSPX_UplinkPreambleLength	UplinkPreambleLength	UplinkPreambleLength to be used for
		RlcPhyCapabilitiesCnf message.
TSPX_UplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMaxQpsk to be used for
		RIcPhyCapabilitiesCnf message.
TSPX_UplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax16Qam to be used for
		RlcPhyCapabilitiesCnf message.
TSPX_InitializationStatus	InitializationStatus	InitializationStatus to be used for RlcPhyCapabilitiesCnf
		message.

Table C.15: RIcPhyCapabilitiesInfo message parameters

TSPX_downlink64QamSupport	Downlink64QamSupport	Downlink64QamSupport to be used for
		RIcPhyCapabilitiesInfo message.
TSPX_uplink16QamSupport	Uplink16QamSupport	Uplink16QamSupport to be used for
		RlcPhyCapabilitiesInfo message.
TSPX_uplinkTurboEncSupport	UplinkTurboEncSupport	UplinkTurboEncSupport to be used for
		RlcPhyCapabilitiesInfo message.
TSPX_uplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMaxQpsk to be used for
		RlcPhyCapabilitiesInfo message.
TSPX_uplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax16Qam to be used for
		RlcPhyCapabilitiesInfo message.
TSPX_numberSaidSupport	NumberSaidSupport	NumberSaidSupport to be used for
		RlcPhyCapabilitiesInfo message.
TSPX_terminalType	TerminalType	TerminalType to be used for RlcPhyCapabilitiesInfo
		message.
TSPX_PairOfCarrierFrequencies1	PairOfCarrierFrequencies	PairOfCarrierFrequencies 1 to be used for
		RlcPhyCapabilitiesInfo message.
TSPX_PairOfCarrierFrequencies2	PairOfCarrierFrequencies	PairOfCarrierFrequencies 2 to be used for
·		RlcPhyCapabilitiesInfo message.

Table C.16: RIcAuthKeyCmd message parameters

TSPX_HmacOfAuthKey	HmacOfAuthKey	HmacOfAuthKey for inopportune RlcAuthKeyCmd.
TSPX_AuthKeyEncrypted	AuthKeyEncrypted	AuthKeyEncrypted for inopportune RlcAuthKeyCmd.
TSPX_Nonce2	Nonce	Nonce for inopportune RlcAuthKeyCmd.
TSPX HmacOfAuthKey invalid	HmacOfAuthKev	Provide an invalid HmacOfAuthKey for testing retransmission.

Table C.17: RIcAuthReply message parameters

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ITSPX said	ISaid	ISaid for sending RIcAuthReply messages.

Table C.18: RIcAuthCertificateInfo message parameters

TSPX_ManufacturerCertificate	ManufacturerCertificate	ManufacturerCertificate for sending RlcAuthCertificateInfo
		message.
TSPX_AtCertificate	AtCertificate	AtCertificate for sending RIcAuthCertificateInfo message.
TSPX_AtCertificate_Invalid	AtCertificate	Invalid AtCertificate for sending RlcAuthCertificateInfo
		message.

Table C.19: RIcTekAllocationFirst message or RIcTekAllocationRefresh message parameters

TSPX_TekEncrypted1	TekEncrypted	TekEncrypted1 for TEK Allocation first.	
TSPX_HmacOfTek1	HmacOfTek	HmacOfTek1 for TEK Allocation first.	
TSPX_HmacOfTek1_Invalid	HmacOfTek	HmacOfTek1 invalid for TEK Allocation first.	
TSPX_Ivp1	lvp	Ivp1 for TEK Allocation first.	
TSPX_TekEncrypted2	TekEncrypted	TekEncrypted2 for TEK Allocation first.	
TSPX_HmacOfTek2	HmacOfTek	HmacOfTek2 for TEK Allocation first.	
TSPX_lvp2	Ivp	lvp2 for TEK Allocation first.	
TSPX_EksAllocated	EksAllocated	EksAllocated for TEK Allocation first.	
TSPX_Nonce	Nonce	Nonce for TEK Allocation first.	

Table C.20: RIcOtherCapabilitiesInfo message parameters

TSPX_numberUplinkConnsSupport	NumberUplinkConnsSupport	NumberUplinkConnsSupport for sending RlcOtherCapabilitiesInfo message.
TSPX_numberDownlinkConnsSupport	NumberDownlinkConnsSupport	NumberDownlinkConnsSupp for sending RlcOtherCapabilitiesInfo message.
TSPX_numberConnAggsSupport	NumberConnAggsSupport	NumberConnAggsSupport for sending RlcOtherCapabilitiesInfo message.
TSPX_numberConnsPerConnAggSupport	NumberConnsPerConnAggSupport	NumberConnsPerConnAggSupport for sending RlcOtherCapabilitiesInfo message.
TSPX_TerminalClCapabilities	TerminalClCapabilities	TerminalClCapabilities for sending RlcOtherCapabilitiesInfo message.
TSPX_crSupport	CrSupport	CrSupport for sending RIcOtherCapabilitiesInfo message.
TSPX_TripleDesSupport	TripleDesSupport	TripleDesSupport for sending RIcOtherCapabilitiesInfo message.

Table C.21: RIcOtherCapabilitiesCnf message parameters

TSPX_numberUplinkConnsUse	NumberUplinkConnsUse	NumberUplinkConnsUse to be used for sending RIcOtherCapabilitiesCnf
		message.
TSPX_numberDownlinkConnsUse	NumberDownlinkConnsUse	NumberDownlinkConnsUse to be used for sending RIcOtherCapabilitiesCnf message.
TSPX_numberConnAggsUse	NumberConnAggsUse	NumberConnAggsUse to be used for sending RIcOtherCapabilitiesCnf message.
TSPX_numberConnsPerConnAggUse	NumberConnsPerConnAggUse	NumberConnsPerConnAggUse to be used for sending RIcOtherCapabilitiesCnf message.
TSPX_tripleDesUse	TripleDesUse	TripleDesUse to be used for sending RIcOtherCapabilitiesCnf message.

Table C.22: Connection establishment parameters

TSPX_Clid	Clid	Clid to be used in connection establishment.	
TSPX_Clid_ATM	Clid	Clid for ATM to be used in connection	
		stablishment.	
TSPX_Clid2_ATM	Clid	Clid for ATM to be used in connection establishment.	
TSPX_Clid_ETH	Clid	Clid for Ethernet to be used in connection establishment.	
TSPX_Clid2_ETH	Clid	Clid for Ethernet to be used in connection establishment.	
TSPX_Direction	DirectionChoice	Direction to be used in connection establishment.	
TSPX Direction2	DirectionChoice	Direction to be used in connection establishment.	
TSPX_Direction_ATM	DirectionChoice	Direction for ATM to be used in connection establishment.	
TSPX_Direction2_ATM	DirectionChoice	Direction for ATM to be used in connection establishment.	
TSPX_Direction_ETH	DirectionChoice	Direction for Ethernet to be used in connection establishment.	
TSPX_Direction2_ETH	DirectionChoice	Direction for Ethernet to be used in connection establishment.	
TSPX_ArqUsage	ArqUsage	ARQ to be used in connection establishment.	
TSPX_ArqUsage2	ArqUsage	ARQ to be used in connection establishment.	
TSPX_ArqUsage_ATM	ArqUsage	ARQ for ATM to be used in connection establishment.	
TSPX_ArqUsage2_ATM	ArqUsage	ARQ for ATM to be used in connection establishment.	
TSPX_ArqUsage_ETH	ArqUsage	ARQ for Ethernet to be used in connection establishment.	
TSPX_ArqUsage2_ETH	ArqUsage	ARQ for Ethernet to be used in connection establishment.	
TSPX_connectionClParameters	ConnectionCIParameters	ConnectionClParameters to be used in connection establishment.	
TSPX_connectionClParameters1	ConnectionCIParameters	ConnectionClParameters to be used in connection establishment.	
TSPX_connectionCIParameters2	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.	
TSPX_connectionClParameters_ATM	ConnectionCIParameters		
TSPX_connectionCIParameters2_ATM	ConnectionCIParameters	ConnectionClParameters to be used in connection establishment.	
TSPX_connectionCIParameters_ETH	ConnectionCIParameters	ConnectionClParameters to be used in connection establishment.	
TSPX_connectionCIParameters2_ETH	ConnectionCIParameters	ConnectionCIParameters to be used in connection establishment.	
TSPX_pmAssociation	PmAssociation	PmAssociation to be used in connection establishment.	
TSPX_pmAssociation_ATM	PmAssociation	PmAssociation for ATM to be used in connection establishment.	
TSPX_pmAssociation2_ATM	PmAssociation	PmAssociation for ATM to be used in connection establishment.	
TSPX_pmAssociation_ETH	PmAssociation	PmAssociation for Ethernet to be used in connection establishment.	
TSPX_pmAssociation2_ETH	PmAssociation	PmAssociation for Ethernet to be used in connection establishment.	
TSPX_ContentionFlag	ContentionFlag	ContentionFlag to be used in connection establishment.	
TSPX_ContentionFlag_ATM	ContentionFlag	ContentionFlag for ATM to be used in connection establishment.	
TSPX_ContentionFlag2_ATM	ContentionFlag	ContentionFlag for ATM to be used in connection establishment.	
TSPX_ContentionFlag_ETH	ContentionFlag	ContentionFlag for Ethernet to be used in connection establishment.	
TSPX_ContentionFlag2_ETH	ContentionFlag	ContentionFlag for Ethernet to be used in connection establishment.	

Table C.23: Connection change parameters

TSPX Clid2	Clid	Clid to be used in connection change.
TSFA_Gliu2	Cilu	Clid to be used in connection change.

Table C.24: RIcHandoverCmd message parameters

TSPX_Apcld Apcld	Apcld to be used for sending RlcHandoverCmd message.
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Annex D (normative): PCTR Proforma for HA DLC AT

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. Any needed additional information can be found in the ISO/IEC 9646-6.

D.1 Identification summary

D.1.1 Protocol conformance test report

Table D.1

PCTR Number:	
PCTR Date:	
Corresponding SCTR Number:	
Corresponding SCTR Date:	
Test Laboratory Identification:	
Test Laboratory Manager:	
Signature:	

D.1.2 IUT identification

Table D.2

Name:	
Version:	
Protocol specification:	
PICS:	
Previous PCTR if anv:	

D.1.3 Testing environment

Table D.3

PIXIT Number:	
ATS Specification:	
Abstract Test Method:	Remote test method, Embedded variant with notional UT
Means of Testing identification:	
Date of testing:	
Conformance Log reference(s):	
Retention Date for Log reference(s):	

D.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.
D.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.
D.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 D.3) and there are no "FAIL" verdicts to be recorded (in clause D.6) strike the words "has or", otherwise strike the words "or has not".
D.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.
D.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 D.6) strike the words "did or" otherwise strike the words "or did not".
Summary of the results of groups of test:

D.5 Static conformance review report

If clause D.3 indicates non-conformance, this clause itemises the mismatches between the PICS and the static conformance requirements of the specified protocol specification.	

D.6 Test campaign report

Table D.4

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
TP-AT-INC-FS-BV-000	Yes/No	Yes/No		
TP-AT-INC-FS-BV-001	Yes/No	Yes/No		
TP-AT-INC-FS-BV-002	Yes/No	Yes/No		
TP-AT-INC-SA-BV-000	Yes/No	Yes/No		
TP-AT-INC-SA-BV-001	Yes/No	Yes/No		
TP-AT-INC-SI-BV-000	Yes/No	Yes/No		
TP-AT-INC-PA-BV-000	Yes/No	Yes/No		
TP-AT-INC-PA-BV-001	Yes/No	Yes/No		
TP-AT-INC-RA-BV-000	Yes/No	Yes/No		
TP-AT-INC-RA-BV-001	Yes/No	Yes/No		
TP-AT-INC-RA-BV-002	Yes/No	Yes/No		
TP-AT-INC-RA-BV-003	Yes/No	Yes/No		
TP-AT-INC-RA-BV-004	Yes/No	Yes/No		
TP-AT-INC-RA-BV-005	Yes/No	Yes/No		
TP-AT-INC-RA-BV-006	Yes/No	Yes/No		
TP-AT-INC-RA-BV-007	Yes/No	Yes/No		
TP-AT-INC-RA-BV-008	Yes/No	Yes/No		
TP-AT-INC-RA-BV-009	Yes/No	Yes/No		
TP-AT-INC-RA-BV-010	Yes/No	Yes/No		
TP-AT-INC-RA-BV-011	Yes/No	Yes/No		
TP-AT-INC-RA-BV-012	Yes/No	Yes/No		
TP-AT-INC-RA-BV-013	Yes/No	Yes/No		
TP-AT-INC-RA-BV-014	Yes/No	Yes/No		
TP-AT-INC-RA-BV-015	Yes/No	Yes/No		
TP-AT-INC-RA-BV-016	Yes/No	Yes/No		
TP-AT-INC-PN-BV-000	Yes/No	Yes/No		
TP-AT-INC-PN-BV-001	Yes/No	Yes/No		
TP-AT-INC-PN-BV-002	Yes/No	Yes/No		
TP-AT-INC-PN-BV-003	Yes/No	Yes/No		
TP-AT-INC-PN-BV-004	Yes/No	Yes/No		
TP-AT-INC-PN-BV-005	Yes/No	Yes/No		
TP-AT-INC-OC-BV-000	Yes/No	Yes/No		
TP-AT-INC-OC-BV-001	Yes/No	Yes/No		
TP-AT-INC-OC-BV-002	Yes/No	Yes/No		
TP-AT-INC-OC-BV-003	Yes/No	Yes/No		
TP-AT-INC-OC-BV-004	Yes/No	Yes/No		

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
TP-AT-INC-OC-BV-005	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-000	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-001	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-002	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-003	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-004	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-005	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-006	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-007	Yes/No	Yes/No		
TP-AT-RRC-LS-BV-008	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-000	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-001	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-002	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-003	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-004	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-005	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-006	Yes/No	Yes/No	-	
TP-AT-RRC-PT-BV-007	Yes/No	Yes/No	-	
TP-AT-RRC-PT-BV-008	Yes/No	Yes/No	1	
TP-AT-RRC-PT-BV-009	Yes/No	Yes/No		
TP-AT-RRC-PT-BV-010	Yes/No	Yes/No		
TP-AT-RRC-LL-BV-000	Yes/No	Yes/No		
TP-AT-SEC-IA-BV-000	Yes/No	Yes/No		
TP-AT-SEC-IA-BV-001	Yes/No	Yes/No		
TP-AT-SEC-IA-BV-002 TP-AT-SEC-IA-BV-003	Yes/No Yes/No	Yes/No Yes/No		
TP-AT-SEC-IA-BV-003	Yes/No	Yes/No Yes/No		
TP-AT-SEC-IA-BV-004	Yes/No			
TP-AT-SEC-IA-BV-006	Yes/No	Yes/No Yes/No		
TP-AT-SEC-RE-BV-000	Yes/No	Yes/No		
TP-AT-SEC-RE-BV-000	Yes/No	Yes/No		
TP-AT-SEC-RE-BV-002	Yes/No	Yes/No		
TP-AT-SEC-RE-BV-003	Yes/No	Yes/No		
TP-AT-SEC-KA-BV-000	Yes/No	Yes/No		
TP-AT-SEC-KA-BV-001	Yes/No	Yes/No		
TP-AT-SEC-KA-BV-002	Yes/No	Yes/No		
TP-AT-SEC-KA-BV-003	Yes/No	Yes/No		
TP-AT-SEC-KA-BV-004	Yes/No	Yes/No		
TP-AT-SEC-KR-BV-000	Yes/No	Yes/No		
TP-AT-SEC-KR-BV-001	Yes/No	Yes/No		
TP-AT-SEC-KR-BV-002	Yes/No	Yes/No		
TP-AT-SEC-KR-BV-003	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-000	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-001	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-002	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-003	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-004	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-005	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-006	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-007	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-008	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-009	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-010	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-011	Yes/No	Yes/No		
TP-AT-SEC-KU-BV-012	Yes/No	Yes/No	_	
TP-AT-COC-CE-BV-000	Yes/No	Yes/No		
TP-AT-COC-CE-BV-001	Yes/No	Yes/No	-	
TP-AT-COC-CE-BV-002	Yes/No	Yes/No	-	
TP-AT-COC-CE-BV-003	Yes/No	Yes/No	-	
TP-AT-COC-CE-BV-004	Yes/No	Yes/No		
TP-AT-COC-CE-BV-005	Yes/No	Yes/No		

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
TP-AT-COC-CE-BV-006	Yes/No	Yes/No		,
TP-AT-COC-CE-BV-007	Yes/No	Yes/No		
TP-AT-COC-CE-BV-008	Yes/No	Yes/No		
TP-AT-COC-CE-BV-009	Yes/No	Yes/No		
TP-AT-COC-CE-BV-010	Yes/No	Yes/No		
TP-AT-COC-CE-BV-011	Yes/No	Yes/No		
TP-AT-COC-CE-BV-012	Yes/No	Yes/No		
TP-AT-COC-CM-BV-000	Yes/No	Yes/No		
TP-AT-COC-CM-BV-001	Yes/No	Yes/No		
TP-AT-COC-CM-BV-002	Yes/No	Yes/No		
TP-AT-COC-CM-BV-003	Yes/No	Yes/No		
TP-AT-COC-CM-BV-004	Yes/No	Yes/No		
TP-AT-COC-CM-BV-005	Yes/No	Yes/No		
TP-AT-COC-CM-BV-006	Yes/No	Yes/No		
TP-AT-COC-CM-BV-007	Yes/No	Yes/No		
TP-AT-COC-CM-BV-008	Yes/No	Yes/No		
TP-AT-COC-CM-BV-009	Yes/No	Yes/No		
TP-AT-COC-CM-BV-010	Yes/No	Yes/No		
TP-AT-COC-CM-BV-011	Yes/No	Yes/No		
TP-AT-COC-CM-BV-012	Yes/No	Yes/No		
TP-AT-COC-CT-BV-000	Yes/No	Yes/No		
TP-AT-COC-CT-BV-001	Yes/No	Yes/No		
TP-AT-COC-CT-BV-002	Yes/No	Yes/No		
TP-AT-COC-CT-BV-003	Yes/No	Yes/No		
TP-AT-COC-CT-BV-004	Yes/No	Yes/No		
TP-AT-COC-CT-BV-005	Yes/No	Yes/No		
TP-AT-COC-CT-BV-006	Yes/No	Yes/No		
TP-AT-COC-CT-BV-007	Yes/No	Yes/No		

D.7	Observations

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

Annex E (normative): PCTR Proforma for HA DLC AP

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. Any needed additional information can be found in the ISO/IEC 9646-6.

E.1 Identification summary

E.1.1 Protocol conformance test report

Table E.1

PCTR Number:	
PCTR Date:	
Corresponding SCTR Number:	
Corresponding SCTR Date:	
Test Laboratory Identification:	
Test Laboratory Manager:	
Signature:	

E.1.2 IUT identification

Table E.2

Name:	
Version:	
Protocol specification:	
PICS:	
Previous PCTR if any:	

E.1.3 Testing environment

Table E.3

PIXIT Number:	
ATS Specification:	
Abstract Test Method:	Remote test method, Embedded variant with notional UT
Means of Testing identification:	
Date of testing:	
Conformance Log reference(s):	
Retention Date for Log reference(s):	

E.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.
E.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.
E.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 D.3) and there are no "FAIL" verdicts to be recorded (in clause D.6) strike the words "has or", otherwise strike the words "or has not".
E.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.
E.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 D.6) strike the words "did or" otherwise strike the words "or did not".
Summary of the results of groups of test:

E.5 Static conformance review report

clause D.3 indicates non-conformance, this clause itemises the mismatches between the PICS and the static onformance requirements of the specified protocol specification.	

E.6 Test campaign report

Table E.4

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
TP-AP-INC-FS-BV-000	Yes/No	Yes/No		
TP-AP-INC-PA-BV-000	Yes/No	Yes/No		
TP-AP-INC-RA-BV-000	Yes/No	Yes/No		
TP-AP-INC-RA-BV-001	Yes/No	Yes/No		
TP-AP-INC-RA-BV-002	Yes/No	Yes/No		
TP-AP-INC-RA-BV-003	Yes/No	Yes/No		
TP-AP-INC-RA-BV-004	Yes/No	Yes/No		
TP-AP-INC-RA-BV-005	Yes/No	Yes/No		
TP-AP-INC-RA-BV-006	Yes/No	Yes/No		
TP-AP-INC-RA-BV-007	Yes/No	Yes/No		
TP-AP-INC-RA-BV-008	Yes/No	Yes/No		
TP-AP-INC-RA-BV-009	Yes/No	Yes/No		
TP-AP-INC-PN-BV-000	Yes/No	Yes/No		
TP-AP-INC-PN-BV-001	Yes/No	Yes/No		
TP-AP-INC-PN-BV-002	Yes/No	Yes/No		
TP-AP-INC-PN-BV-003	Yes/No	Yes/No		
TP-AP-INC-PN-BV-004	Yes/No	Yes/No		
TP-AP-INC-OC-BV-000	Yes/No	Yes/No		
TP-AP-INC-OC-BV-001	Yes/No	Yes/No		
TP-AP-INC-OC-BV-002	Yes/No	Yes/No		
TP-AP-INC-OC-BV-003	Yes/No	Yes/No		
TP-AP-INC-OC-BV-004	Yes/No	Yes/No		
TP-AP-INC-OC-BV-005	Yes/No	Yes/No		
TP-AP-INC-OC-BV-006	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-000	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-001	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-002	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-003	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-004	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-005	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-000	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-001	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-002	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-003	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-004	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-005	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-006	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-007	Yes/No	Yes/No		
TP-AP-RRC-PT-BV-008	Yes/No	Yes/No		

ATS Reference	Selected?	Run?	Verdict	Observations
ATO Reference	Ocicoled:	ixuii:	Verdict	(Reference to any observations made
				in clause 7)
TP-AP-RRC-PT-BV-009	Yes/No	Yes/No		,
TP-AP-RRC-LL-BV-000	Yes/No	Yes/No		
TP-AP-SEC-IA-BV-000	Yes/No	Yes/No		
TP-AP-SEC-IA-BV-001	Yes/No	Yes/No		
TP-AP-SEC-IA-BV-002	Yes/No	Yes/No		
TP-AP-SEC-IA-BV-003	Yes/No	Yes/No		
TP-AP-SEC-IA-BV-004	Yes/No	Yes/No		
TP-AP-SEC-RE-BV-000	Yes/No	Yes/No		
TP-AP-SEC-RE-BV-001	Yes/No	Yes/No		
TP-AP-SEC-KA-BV-000	Yes/No	Yes/No		
TP-AP-SEC-KA-BV-001	Yes/No	Yes/No		
TP-AP-SEC-KA-BV-002	Yes/No	Yes/No		
TP-AP-SEC-KR-BV-000	Yes/No	Yes/No		
TP-AP-SEC-KR-BV-001	Yes/No	Yes/No		
TP-AP-SEC-KR-BV-002	Yes/No	Yes/No		
TP-AP-SEC-KR-BV-003	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-000	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-001	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-002	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-003	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-004	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-005	Yes/No	Yes/No		
TP-AP-COC-CE-BV-000	Yes/No	Yes/No		
TP-AP-COC-CE-BV-001	Yes/No	Yes/No		
TP-AP-COC-CE-BV-002	Yes/No	Yes/No		
TP-AP-COC-CE-BV-003	Yes/No	Yes/No		
TP-AP-COC-CE-BV-004	Yes/No	Yes/No		
TP-AP-COC-CE-BV-005 TP-AP-COC-CE-BV-006	Yes/No Yes/No	Yes/No Yes/No		
TP-AP-COC-CE-BV-006	Yes/No	Yes/No		
TP-AP-COC-CE-BV-007	Yes/No	Yes/No		
TP-AP-COC-CE-BV-009	Yes/No	Yes/No		
TP-AP-COC-CM-BV-000	Yes/No	Yes/No		
TP-AP-COC-CM-BV-001	Yes/No	Yes/No		
TP-AP-COC-CM-BV-002	Yes/No	Yes/No		
TP-AP-COC-CM-BV-003	Yes/No	Yes/No		
TP-AP-COC-CM-BV-004	Yes/No	Yes/No		
TP-AP-COC-CM-BV-005	Yes/No	Yes/No		
TP-AP-COC-CM-BV-006	Yes/No	Yes/No		
TP-AP-COC-CM-BV-007	Yes/No	Yes/No		
TP-AP-COC-CM-BV-008	Yes/No	Yes/No		
TP-AP-COC-CM-BV-009	Yes/No	Yes/No		
TP-AP-COC-CT-BV-000	Yes/No	Yes/No		
TP-AP-COC-CT-BV-001	Yes/No	Yes/No		
TP-AP-COC-CT-BV-002	Yes/No	Yes/No		
TP-AP-COC-CT-BV-003	Yes/No	Yes/No		
TP-AP-COC-CT-BV-004	Yes/No	Yes/No		
TP-AP-COC-CT-BV-005	Yes/No	Yes/No		
TP-AP-COC-CT-BV-006	Yes/No	Yes/No		
TP-AP-COC-CT-BV-007	Yes/No	Yes/No		
TP-AP-COC-MC-BV-000	Yes/No	Yes/No		

E.7	Observations
	nformation relevant to the technical content of the PCTR is given here.

Annex F (informative): Bibliography

- ITU-T Recommendation X.290: "OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications General concepts".
- ITU-T Recommendation X.291: "OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications Abstract test suite specification".
- ITU-T Recommendation X.292: "OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications The Tree and Tabular Combined Notation (TTCN)".

History

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