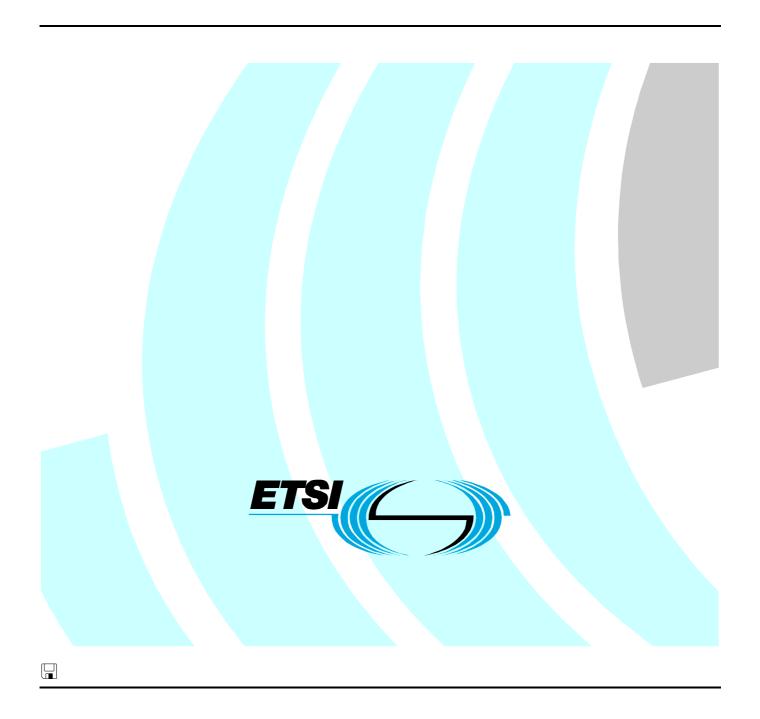
# ETSI TS 102 149-3 V1.1.1 (2002-11)

Technical Specification

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



#### Reference

#### DTS/BRAN-003T002-3

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## **Foreword**

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

The present document is part 3 of a multi-part deliverable. Full details of the entire series can be found in part 1, sub-part 1 [8].

## 1 Scope

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

The objective of this test specification is to provide a basis for conformance tests for BRAN HIPERACCESS equipment giving a high probability of air interface inter-operability between different manufacturer's 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 C 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

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

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- [1] ETSI TS 102 000 (V1.1.1): "Broadband Radio Access Networks (BRAN); HIPERACCESS; Data Link Control (DLC) layer".
- [2] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [3] ISO/IEC 9646-1 (1991): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts". (See also ITU-T Recommendation X.290 (1991).)
- [4] ISO/IEC 9646-2 (1991): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract test suite specification". (See also ITU-T Recommendation X.291 (1991).)
- [5] ISO/IEC 9646-3 (1991): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 3: The tree and tabular combined notation". (See also ITU-T Recommendation X.292 (1992).)
- [6] ISO/IEC 9646-6 (1991): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 6: Protocol profile test specification".
- [7] ISO/IEC 9646-7 (1991): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 7: Implementation conformance statement".

[8] ETSI TS 102 149-1(V1.1.1): "Broadband Radio Access Networks (BRAN); HIPERACCESS; Conformance Testing for the Data Link Control (DLC) Layer; Part 1: Protocol Implementation Conformance Statement (PICS) proforma".

## 3 Definitions and abbreviations

#### 3.1 Definitions

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

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations defined 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)

ATM Abstract Test Method

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)
FS Frequency Scanning
IA Initial Authorization

ID IDentity

INC INitialization Control function

IP Internet Protocol

IUT Implementation Under Test

KR Key Requests
KU Keys Usage
LL Leased Line
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

PIXIT partial Protocol Implementation eXtra Information for Testing

PN Physical capabilities Negotiation
PO POstamble
PR PReamble
RA RAnging
RE REauthorization
RRC Radio Resource Control function

SA Security Association SAP Service Access Point

SAR Segmentation And Re-assembly SEC SEcurity Control function

SI Slip Indicator SUT System Under Test

TB Test Body TC Test Cases

TD Transmission Delay

TDMA Time Division Multiple Access

TID Terminal ID
TP Test Purposes
TS TestStep

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

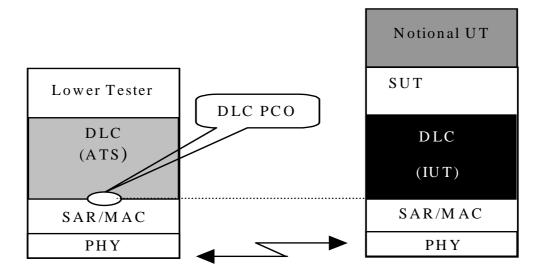


Figure 1: Test architecture for DLC

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 information 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/IEC 9646-1 [3] and 2 [4]. 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.

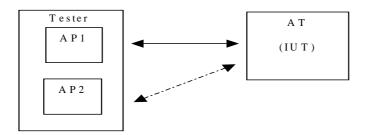


Figure 3: Load leveling configuration for AT

The load-leveling 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 part 2 of the present document, 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>_<nnn></nnn></x></fm></pg></st>		
	<st> = side type</st>	AP	Access Point
		AT	Access Termination
	<pg> = protocol 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 Leveling
		IA	Initial Authorization
		RE	Reauthorization
		KR	Key Requests
		KU	Traffic Encryption Keys Usage
		CE	Connection Establishment
		CM	Connection Modification
		CT	Connection Termination
		MC	Multicast Connections
	x = Type of testing	BV	Valid Behaviour tests
		TI	Timer tests
		ВО	inoportune BehaviOur tests
	<nnn> = sequential number</nnn>	(000-999)	Test Case Number

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

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>	(00-99)	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 identification id 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/IEC 9646-3 [5], 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 Format<sup>TM</sup> files hipA\_v006.PDF and is contained in the compressed archive file named ts\_10214903v010101p0.ZIP, which accompanies the present document and where 010101 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\_v006.MP and is contained in the compressed archive file named ts\_10214903v010101p0.ZIP, which accompanies the present document and where 010101 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.

NOTE: Where an ETSI Abstract Test Suite (in TTCN) is published in both .GR and .MP format these two forms shall be considered equivalent. In the event that there appears to be syntactical or semantic differences between the two then the problem shall be resolved and the erroneous format (whichever it is) shall be corrected.

# 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 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:	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_authorization_implemented	BOOLEAN	TRUE if authorization 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 management
TSPX_dataCID_other	AssignedCid	AssignedCid to be used in connection management for not assigned Cid
TSPX_Said	Said	Said to be used in connection management
TSPX_Said_ATM	Said	Said for ATM to be used in connection management
TSPX_Said2_ATM	Said	Said for ATM to be used in connection management
TSPX_Said_ETH	Said	Said for Ethernet to be used in connection management
TSPX_Said2_ETH	Said	Said for Ethernet to be used in connection management
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

Table B.8: Framing construction information

TSPX_maxNbrDIUC	INTEGER	Maximum number of DL map 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 map entries to be expected for testing proper frame formation	
TSPX_maxNbrTDMA	INTEGER	Maximum number of TDMA map 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	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 RlcConnectionAdditionSetup PDU is repeated if a corresponding Ack is not received
TSPX_ConnChangeSetup_Loops	INTEGER	Number of times to test that RIcConnectionChangeSetup PDU is repeated if a corresponding Ack is not received
TSPX_ConnReleaseInit_Loops	INTEGER	Number of times to test that RIcConnectionDeletionInit 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 RIcConnectionAdditionInit PDU is repeated if a corresponding RIcConnectionAdditionSetup 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
_		RIcMeasurementReportData message
TSPX_UplinkPhyMode	UplinkPhyMode	UplinkPhyMode to be used to construct a valid
		RIcMeasurementReportData message

Table B.14: RIcPhyCapabilitiesCnf message Parameters

TSPX_Downlink64QamUse	Downlink64QamUse	Downlink64QamUse to be used for RIcPhyCapabilitiesCnf message
TSPX_Uplink16QamUse	Uplink16QamUse	Uplink16QamUse to be used for RlcPhyCapabilitiesCnf message
TSPX_UplinkTurboEncUse	UplinkTurboEncUse	UplinkTurboEncUse to be used for RIcPhyCapabilitiesCnf message
TSPX_UplinkPreambleLength	UplinkPreambleLength	UplinkPreambleLength to be used for RlcPhyCapabilitiesCnf message
TSPX_UplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMax, to be used for RIcPhyCapabilitiesCnf message
TSPX_UplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax16Qam to be used for RIcPhyCapabilitiesCnf message
TSPX_InitializationStatus	InitializationStatus	UplinkPowerMaxQpsk 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 RlcPhyCapabilitiesInfo message
TSPX_uplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMax to be used for RIcPhyCapabilitiesInfo message
TSPX_uplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax to be used for RIcPhyCapabilitiesInfo message
TSPX_numberSaidSupport	NumberSaidSupport	NumberSaidSupport to be used for RIcPhyCapabilitiesInfo message
TSPX_terminalType	TerminalType	TerminalType to be used for RIcPhyCapabilitiesInfo message

## Table B.16: RIcAuthManufacturerInfo message Parameters

TSPX_ManufacturerX509certificate	ManufacturerX509certificate	ManufacturerX509certificate for sending
		RIcAuthManufacturerInfo message

## Table B.17 RIcAuthReply message Parameters

TSPX_ManufacturerID	ManufacturerID	ManufacturerID for sending RlcAuthReply message	
TSPX_AtPublicKey	AtPublicKey	AtPublicKey for sending RlcAuthReply message	
TSPX_AtX509certificate	AtX509certificate	AtX509certificate for sending RIcAuthReply message	
TSPX_authorizationKey1	AuthorizationKey	AuthorizationKey for sending RlcAuthReply message - First AK	
TSPX_akSequenceNumber1	AkSequenceNumber	AkSequenceNumber for sending RlcAuthReply message - First AK	
TSPX_akLifeTime1	AkLifeTime	AkLifeTime for sending RlcAuthReply message - First AK	
TSPX_said	Said	Said for sending RlcAuthReply messages	
TSPX_authorizationKey2	AuthorizationKey	AuthorizationKey for sending RlcAuthReply message - Second AK	
TSPX_akSequenceNumber2	AkSequenceNumber	AkSequenceNumber for sending RlcAuthReply message - Second AK	
TSPX_akLifeTime2	AkLifeTime	AkLifeTime for sending RlcAuthReply message - Second AK	

#### Table B.18: RIcTekReq message Parameters

**Table B.19 RIcTekAllocation message Parameters** 

TSPX_Tek1	Tek	Tek to be used for sending the first
		RIcTekAllocation message
TSPX_TekLifetime1	TekLifetime	TekLifetime to be used for sending the first
		RIcTekAllocation message
TSPX_TekSequenceNumber1	TekSequenceNumber	TekSequenceNumber to be used for sending the
		first RIcTekAllocation message
TSPX_IvParameter1	IvParameter	IvParameter to be used for sending the first
		RIcTekAllocation message
TSPX_HmacKeyedMessageDigest1	HmacKeyedMessageDigest	HmacKeyedMessageDigest to be used for
		sending the first RIcTekAllocation message
TSPX_InitializationStatus1	InitializationStatus	InitializationStatus to be used for sending the
		first RIcTekAllocation message
TSPX_Tek2	Tek	Tek to be used for sending the second
		RIcTekAllocation message
TSPX_TekLifetime2	TekLifetime	TekLifetime to be used for sending the second
		RIcTekAllocation message
TSPX_TekSequenceNumber2	TekSequenceNumber	TekSequenceNumber to be used for sending the
·	·	second RIcTekAllocation message
TSPX_lvParameter2	IvParameter	IvParameter to be used for sending the second
_		RIcTekAllocation message
TSPX_HmacKeyedMessageDigest2	HmacKeyedMessageDigest	HmacKeyedMessageDigest to be used for
		sending the second RIcTekAllocation message
TSPX_InitializationStatus2	InitializationStatus	InitializationStatus to be used for sending the
		second RIcTekAllocation message

## 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 RlcOtherCapabilitiesCnf message
TSPX_numberConnAggsUse	NumberConnAggsUse	NumberConnAggsUse to be used for sending RIcOtherCapabilitiesCnf message
TSPX_numberConnsPerConnAggUse	NumberConnsPerConnAggUse	NumberConnsPerConnAggUse to be used for sending RlcOtherCapabilitiesCnf message
TSPX_tripleDesUse	TripleDesUse	TripleDesUse to be used for sending RIcOtherCapabilitiesCnf message

**Table B.22: Connection establishment Parameters** 

TSPX_Clid	in connection in connection sed in connection
TSPX_Clid2_ATM  Clid  Clid for ATM to be used establishment  TSPX_Clid_ETH  Clid  Clid for Ethernet to be use establishment  TSPX_Clid2_ETH  Clid  Clid for Ethernet to be use establishment  TSPX_Direction  DirectionChoice  Direction to be used in connumber of the process of t	sed in connection
establishment	sed in connection
establishment	
establishment	
TSPX_Direction  DirectionChoice  Direction to be used in control of the stablishment  DirectionChoice  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for Ethernet to establishment  ArqUsage  ARQ to be used in control of the stablishment  ArqUsage  ARQ for ATM to be used establishment  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ConnectionClParameters  Connection establishment  TSPX_connection establishment	sed in connection
TSPX_Direction2  DirectionChoice  Direction for ATM to be used in control of the stablishment  TSPX_Direction2_ATM  DirectionChoice  Direction for ATM to be usestablishment  TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ArqUsage  ARQ to be used in control of the co	connection establishment
TSPX_Direction_ATM  DirectionChoice  Direction for ATM to be destablishment  TSPX_Direction2_ATM  DirectionChoice  Direction for ATM to be destablishment  TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ArQ to be used in connectionSPX_ArqUsage_ATM  ArqUsage  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage2_ATM  ArqUsage  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ConnectionCIParameters  ConnectionCIParameters	
TSPX_Direction2_ATM  DirectionChoice  Direction for ATM to be destablishment  TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to destablishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to destablishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ARQ to be used in connection for Ethernet to destablishment  ArqUsage  ARQ to be used in connection for Ethernet to destablishment  ArqUsage  ARQ to be used in connection for Ethernet to destablishment  ArqUsage  ARQ for ATM to be used destablishment  ArqUsage  ARQ for ATM to be used destablishment  ArqUsage  ARQ for Ethernet to be destablishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be destablishment  TSPX_connectionClParameters  ConnectionClParameters  ConnectionClParameters	
TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ARQ to be used in connection and arqusage  ARQ to be used in connection and arqusage  ARQ for ATM to be used in connection and arqusage  Arqusage  Arqusage  Arqusage  ARQ for ATM to be used establishment  Arqusage  ARQ for ATM to be used establishment  Arqusage  ARQ for Ethernet to be used establishment  TSPX_Arqusage_ETH  Arqusage  ARQ for Ethernet to be used establishment  TSPX_Arqusage2_ETH  Arqusage  ARQ for Ethernet to be used establishment  TSPX_connectionClParameters  ConnectionClParameters  ConnectionClParameters	used in connection
TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ARQ to be used in connoction for Ethernet to establishment  ArqUsage  ARQ to be used in connoction ARQ for ATM to be used establishment  ArqUsage  ArqUsage  ArqUsage  ARQ for ATM to be used establishment  ArqUsage  ARQ for ATM to be used establishment  ArqUsage  ARQ for Ethernet to be used establishment  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_connectionClParameters  ConnectionClParameters  ConnectionClParameters	be used in connection
TSPX_ArqUsage ArqUsage ArqUsage ARQ to be used in connection CIParameters  ARQ to be used in connection CIParameters  ARQ for ATM to be used establishment  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for Ethernet to be used in connection CIParameters  Connection CIParameters  Connection CIParameters	be used in connection
TSPX_ArqUsage2 ArqUsage ARQ to be used in connection CIParameters  ArqUsage ARQ to be used in connection CIParameters  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for Ethernet to be used establishment  Connection CIParameters Connection CIParameters  Connection CIParameters	anting antablishment
TSPX_ArqUsage_ATM  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage2_ATM  ArqUsage  ARQ for ATM to be used establishment  ARQ for ATM to be used establishment  ARQ for ATM to be used establishment  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  ARQ for Ethernet to be used establishment  TSPX_connectionCIParameters  ConnectionCIParameters  ConnectionCIParameters	
restablishment  TSPX_ArqUsage2_ATM  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  ArqUsage  ARQ for Ethernet to be used establishment  ConnectionCIParameters  ConnectionCIParameters  ConnectionCIParameters	
rspx_ArqUsage_ETH	
TSPX_connectionClParameters    Sestablishment   ArqUsage   ARQ for Ethernet to be usablishment	
TSPX_connectionClParameters	used in connection
connection establishmer	used in connection
TSPX_connectionClParameters1	s to be used in
TSPX_connectionClParameters2	s to be used in
TSPX_connectionClParameters_ATM	s to be used in
TSPX_connectionClParameters2_ATM	s to be used in
TSPX_connectionClParameters_ETH	s to be used in
TSPX_connectionClParameters2_ETH	s to be used in
TSPX_pmAssociation PmAssociation PmAssociation establishment	
	to be used in connection
	to be used in connection
TSPX_pmAssociation_ETH	
TSPX_pmAssociation2_ETH PmAssociation PmAssociation for Ether connection establishmer	net to be used in
TSPX_ContentionFlag	
TSPX_ContentionFlag_ATM  ContentionFlag  ContentionFlag  ContentionFlag  Connection establishmer	
TSPX_ContentionFlag2_ATM ContentionFlag ContentionFlag ContentionFlag Connection establishmer	16
TSPX_ContentionFlag_ETH  ContentionFlag  ContentionFlag  ContentionFlag  ContentionFlag  ContentionFlag  Connection establishmer	
TSPX_ContentionFlag2_ETH  ContentionFlag  ContentionFlag  ContentionFlag ContentionFlag for Ethel connection establishmer	nt rnet to be used in

**Table B.23: Connection change Parameters** 

TSPX_Clid2	Clid	Clid to be used in connection change
TSPX_Direction2	DirectionChoice	Direction to be used in connection change
TSPX_ArqUsage2	ArqUsage	ARQ to be used in connection change

Table B.24: RIcHandoverCmd message Parameters

TSPX Apcld	Apcld	Apcld to be used for sending RlcHandoverCmd message
1 O1 / (_/ (pola	, .po.a	propora to be accared containing retentation of containing of

# 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 this international standard document.

# 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** 

in use  SPX_dataClD_other  AssignedCid  AssignedCid  AssignedCid to be used in connection management for not assigned Cid  Said  Said  Said to be used in connection management for not assigned Cid  Said Said to be used in connection management for not assigned Cid  Said Said to be used in connection management SPX_Said_ATM  Said  Said for ATM to be used in connection management Said for ATM to be used in connection management SPX_Said_ETH  Said  Said for Ethernet to be used in connection management SPX_Said_ETH  Said  Said for Ethernet to be used in connection management Said for Ethernet to be used in connection management Said for Ethernet to be used in connection management  SPX_Said2_ETH  Said  Said for Ethernet to be used in connection management Said for Ethernet to be used in connection management  SPX_Said2_ETH  Said  Said for Ethernet to be used in connection management Said for Ethernet to be used in connection management  SPX_Said2_ETH  Said  Said for Ethernet to be used in connection management for Ethernet Said Said for Ethernet for Ethernet Said Said for Ethernet Said Said for Ethernet Said Said Said Said Said Said Said Said	TSPX_authorization_implemented	BOOLEAN	TRUE if authorization shall be in use for testing, FALSE otherwise
AssignedCid   AssignedCid to be used in connection management for not assigned Cid   Said to be used in connection management	TSPX_Triple_Des	BOOLEAN	Indicate if the triple DES encryption is implemented and in use
Not assigned Cid	TSPX_Acid	AssignedCid	AssignedCid to be used in connection management
Said   Said   Said   Said   Said   Said to be used in connection management	TSPX_dataCID_other	AssignedCid	AssignedCid to be used in connection management for not assigned Cid
Said	TSPX_Said	Said	
TSPX_Said2_ATM TSPX_Said_ETH Said Said for Ethernet to be used in connection management TSPX_Said_ETH Said Said for Ethernet to be used in connection management TSPX_Said2_ETH Said Said for Ethernet to be used in connection management TSPX_SCId2_ETH Said QOS class for testing purposes TSPX_SCId2 SCId Second QOS class for testing purposes TSPX_SCId2_ATM SCId QOS class for ATM for testing purposes TSPX_SCId2_ATM SCId QOS class for ATM for testing purposes TSPX_SCId2_ATM SCId QOS class for ATM for testing purposes TSPX_SCId2_ETH SCId QOS class for Ethernet for testing purposes TSPX_SCId2_ETH SCId Second QOS class for Ethernet for testing purposes TSPX_SUBD 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_Stub4 Stub Part 3 of big message to send TSPX_Stub5 Stub Part 5 of big message to send TSPX_SUB5 STED DownlinkDescr DirectionDescr Downlink Description to be used to setup a one-way Connection TSPX_DownlinkPhyMode DownlinkPhyMode for testing purpose TSPX_PairofCarrierFrequencies TSPX_PairofCarrierFrequencies TSPX_PairofCarrierFrequencies TSPX_Sub1 TSPX_PairofCarrierFrequencies TSPX_Sub1 TSPX_Sub2 TSPX_PairofCarrierFrequencies TSPX_Sub3 TSPX_Sub4 DownlinkPhyMode for testing purpose TSPX_PairofCarrierFrequencies TSPX_PairofCarrierFrequencies TSPX_PairofCarrierFrequencies TSPX_PairofCarrierFrequencies TSPX_Sub3 TSPX_Sub4 UIUC UIUC TSPX_UIUC For a normal grant to send	TSPX_Said_ATM	Said	
Said   Said for Ethernet to be used in connection management	TSPX_Said2_ATM	Said	
management 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_SCId_ATM SCId Second QOS class for ATM for testing purposes TSPX_SCId_ETH SCId QOS class for Ethernet for testing purposes TSPX_SCId_ETH SCId QOS class for Ethernet for testing purposes TSPX_SCId_ETH SCID Second QOS class for Ethernet for testing purposes TSPX_Stub Stub Stub Some data to send TSPX_Stub Stub Part 1 of big message to send TSPX_Stub1 Stub Part 2 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_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_DownlinkPhyMode DownlinkPhyMode DownlinkPhyMode for testing purpose TSPX_AT_MAC_Addr AtMacAddress AT MAC address for TID assignment and load levelling TSPX_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_Said_ETH	Said	Said for Ethernet to be used in connection
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_SCId_ATM SCId QOS class for ATM for testing purposes TSPX_SCId2_ATM SCId Second QOS class for ATM for testing purposes TSPX_SCId2_ETH SCID QOS class for Ethernet for testing purposes TSPX_SCID2_ETH SCID Second QOS class for Ethernet for testing purposes TSPX_Stub 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_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_ss INTEGER Used to construct a valid Ranging Grant message TSPX_uiuc UIUC for a normal grant to send	TSPX_Said2_ETH	Said	
Second QOS class for testing purposes	TSPX_SCId	SCId	
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 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 TSPX_Stub4 TSPX_Stub4 TSPX_Stub5 Stub Part 4 of big message to send TSPX_Stub5 TSPX_DownlinkDescr DirectionDescr Downlink Description to be used to setup a one-way Connection TSPX_DownlinkPhyMode TSPX_AT_MAC_Addr AtMacAddress AT MAC address for TID assignment and load levelling TSPX_ss INTEGER Used to construct a valid Ranging Grant message TSPX_uiuc UIUC UIUC UIUC for a normal grant to send	TSPX_SCId2	SCId	
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 Some data to send TSPX_Stub1 Stub Part 1 of big message to send TSPX_Stub2 TSPX_Stub3 TSPX_Stub3 TSPX_Stub4 TSPX_Stub4 TSPX_Stub4 TSPX_Stub5 TSPX_Stub5 TSPX_DownlinkDescr DirectionDescr DirectionDescr TSPX_DownlinkPhyMode TSPX_DownlinkPhyMode TSPX_DownlinkPhyMode TSPX_AT_MAC_Addr AtMacAddress TSPX_PairOfCarrierFrequencies TSPX_ss INTEGER USed OS class for Ethernet for testing purposes Second QOS class for Ethernet for testing purposes Testing purposes Tsex_at to send Tsex_a	TSPX_SCId_ATM	SCId	QOS class for ATM for testing purposes
TSPX_SCId2_ETH  SCId  Second QOS class for Ethernet for testing purposes TSPX_Stub  TSPX_Stub1  Stub  Some data to send  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 for testing purpose  TSPX_AT_MAC_Addr  AtMacAddress  AT MAC address for TID assignment and load levelling  TSPX_PairOfCarrierFrequencies  TSPX_ss  INTEGER  Used to construct a valid Ranging Grant message  TSPX_uiuc  UIUC UIUC for a normal grant to send	TSPX_SCId2_ATM	SCId	Second QOS class for ATM for testing purposes
Stub   Some data to send	TSPX_SCId_ETH	SCId	QOS class for Ethernet for testing purposes
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_SCId2_ETH	SCId	Second QOS class for Ethernet for testing purposes
TSPX_Stub2 TSPX_Stub3 Stub Part 2 of big message to send TSPX_Stub3 TSPX_Stub4 TSPX_Stub4 TSPX_Stub5 Stub Part 4 of big message to send TSPX_Stub5 TSPX_DownlinkDescr DirectionDescr Downlink Description to be used to setup a one-way Connection TSPX_DownlinkPhyMode TSPX_DownlinkPhyMode DownlinkPhyMode for testing purpose TSPX_AT_MAC_Addr AtMacAddress AT MAC address for TID assignment and load levelling TSPX_PairOfCarrierFrequencies TSPX_ss INTEGER Used to construct a valid Ranging Grant message TSPX_uiuc UIUC UIUC for a normal grant to send	TSPX_Stub	Stub	Some data 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 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_Stub1	Stub	Part 1 of big message to send
TSPX_Stub4  TSPX_Stub5  Stub  Part 4 of big message to send  Part 5 of big message to send  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  TSPX_ss  INTEGER  Used to construct a valid Ranging Grant message  TSPX_uiuc  UIUC  UIUC for a normal grant to send	TSPX_Stub2	Stub	Part 2 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 for testing purpose  TSPX_AT_MAC_Addr AtMacAddress AT MAC address for TID assignment and load levelling  TSPX_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_Stub3	Stub	Part 3 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 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_Stub4	Stub	Part 4 of big message to send
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 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_Stub5	Stub	Part 5 of big message to send
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_DownlinkDescr	DirectionDescr	
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_DownlinkPhyMode	DownlinkPhyMode	DownlinkPhyMode for testing purpose
TSPX_ss	TSPX_AT_MAC_Addr	AtMacAddress	AT MAC address for TID assignment and load levelling
TSPX_ss	TSPX_PairOfCarrierFrequencies		PairOfCarrierFrequencies for load levelling
	TSPX_ss	INTEGER	
TSPX_RangingStatus RangingStatus RangingStatus for testing purpose	TSPX_uiuc	UIUC	UIUC for a normal grant to send
	TSPX_RangingStatus	RangingStatus	RangingStatus for testing purpose

Table C.8: Framing construction information

TSPX_maxNbrDIUC	INTEGER	Maximum number of DL map 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 map entries to be expected for testing proper frame formation	
TSPX_maxNbrTDMA	INTEGER	Maximum number of TDMA map 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	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_RlcConnectionAdditionAckDUR	INTEGER	Timer Duration
TSPX_RIcConnectionChangeAckDUR	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_RIcConnectionChangeSetupDUR	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 RlcConnectionAdditionSetup 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

	T	
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
		RlcMeasurementReportData message

Table C.14: RIcPhyCapabilitiesCnf message Parameters

TSPX_Downlink64QamUse	Downlink64QamUse	Downlink64QamUse to be used for RIcPhyCapabilitiesCnf message
TSPX_Uplink16QamUse	Uplink16QamUse	Uplink16QamUse to be used for RlcPhyCapabilitiesCnf message
TSPX_UplinkTurboEncUse	UplinkTurboEncUse	UplinkTurboEncUse to be used for RIcPhyCapabilitiesCnf message
TSPX_UplinkPreambleLength	UplinkPreambleLength	UplinkPreambleLength to be used for RlcPhyCapabilitiesCnf message
TSPX_UplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMax, to be used for RIcPhyCapabilitiesCnf message
TSPX_UplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax16Qam to be used for RIcPhyCapabilitiesCnf message
TSPX_InitializationStatus	InitializationStatus	UplinkPowerMaxQpsk to be used for RIcPhyCapabilitiesCnf 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 RIcPhyCapabilitiesInfo message
TSPX_uplinkTurboEncSupport	UplinkTurboEncSupport	UplinkTurboEncSupport to be used for RlcPhyCapabilitiesInfo message
TSPX_uplinkPowerMaxQpsk	UplinkPowerMax	UplinkPowerMax to be used for RIcPhyCapabilitiesInfo message
TSPX_uplinkPowerMax16Qam	UplinkPowerMax	UplinkPowerMax to be used for RIcPhyCapabilitiesInfo message
TSPX_numberSaidSupport	NumberSaidSupport	NumberSaidSupport to be used for RIcPhyCapabilitiesInfo message
TSPX_terminalType	TerminalType	TerminalType to be used for RIcPhyCapabilitiesInfo message

## Table C.16: RicAuthManufacturerInfo message Parameters

TSPX_ManufacturerX509certificate	ManufacturerX509certificate	ManufacturerX509certificate for sending
		RIcAuthManufacturerInfo message

#### Table C.17: RIcAuthReply message Parameters

TSPX_ManufacturerID	ManufacturerID	ManufacturerID for sending RlcAuthReply message
TSPX_AtPublicKey	AtPublicKey	AtPublicKey for sending RlcAuthReply message
TSPX_AtX509certificate	AtX509certificate	AtX509certificate for sending RlcAuthReply message
TSPX_authorizationKey1	AuthorizationKey	AuthorizationKey for sending RlcAuthReply message - First AK
TSPX_akSequenceNumber1	AkSequenceNumber	AkSequenceNumber for sending RlcAuthReply message - First
		AK
TSPX_akLifeTime1	AkLifeTime	AkLifeTime for sending RlcAuthReply message - First AK
TSPX_said	Said	Said for sending RlcAuthReply messages
TSPX_authorizationKey2	AuthorizationKey	AuthorizationKey for sending RlcAuthReply message - Second
		AK
TSPX_akSequenceNumber2	AkSequenceNumber	AkSequenceNumber for sending RlcAuthReply message -
		Second AK
TSPX_akLifeTime2	AkLifeTime	AkLifeTime for sending RlcAuthReply message - Second AK

#### Table C.18: RIcTekReq message Parameters

Table C.19: RIcTekAllocation message Parameters

TSPX_Tek1	Tek	Tek to be used for sending the first RIcTekAllocation message
TSPX_TekLifetime1	TekLifetime	TekLifetime to be used for sending the first RIcTekAllocation message
TSPX_TekSequenceNumber1	TekSequenceNumber	TekSequenceNumber to be used for sending the first RIcTekAllocation message
TSPX_IvParameter1	IvParameter	IvParameter to be used for sending the first RIcTekAllocation message
TSPX_HmacKeyedMessageDigest1	HmacKeyedMessageDigest	HmacKeyedMessageDigest to be used for sending the first RIcTekAllocation message
TSPX_InitializationStatus1	InitializationStatus	InitializationStatus to be used for sending the first RIcTekAllocation message
TSPX_Tek2	Tek	Tek to be used for sending the second RIcTekAllocation message
TSPX_TekLifetime2	TekLifetime	TekLifetime to be used for sending the second RIcTekAllocation message
TSPX_TekSequenceNumber2	TekSequenceNumber	TekSequenceNumber to be used for sending the second RIcTekAllocation message
TSPX_IvParameter2	IvParameter	IvParameter to be used for sending the second RIcTekAllocation message
TSPX_HmacKeyedMessageDigest2	HmacKeyedMessageDigest	HmacKeyedMessageDigest to be used for sending the second RlcTekAllocation message
TSPX_InitializationStatus2	InitializationStatus	InitializationStatus to be used for sending the second RIcTekAllocation message

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 RlcOtherCapabilitiesInfo 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 RlcOtherCapabilitiesCnf message
TSPX_numberConnAggsUse	NumberConnAggsUse	NumberConnAggsUse to be used for sending RIcOtherCapabilitiesCnf message
TSPX_numberConnsPerConnAggUse	NumberConnsPerConnAggUse	NumberConnsPerConnAggUse to be used for sending RlcOtherCapabilitiesCnf message
TSPX_tripleDesUse	TripleDesUse	TripleDesUse to be used for sending RIcOtherCapabilitiesCnf message

**Table C.22: Connection establishment Parameters** 

TSPX_Clid	in connection in connection sed in connection
TSPX_Clid2_ATM  Clid  Clid for ATM to be used establishment  TSPX_Clid_ETH  Clid  Clid for Ethernet to be use establishment  TSPX_Clid2_ETH  Clid  Clid for Ethernet to be use establishment  TSPX_Direction  DirectionChoice  Direction to be used in connumber of the process of t	sed in connection
establishment	sed in connection
establishment	
establishment	
TSPX_Direction  DirectionChoice  Direction to be used in control of the stablishment  DirectionChoice  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for ATM to be used in control of the stablishment  DirectionChoice  Direction for Ethernet to establishment  ArqUsage  ARQ to be used in control of the stablishment  ArqUsage  ARQ for ATM to be used establishment  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used in control of the stablishment  TSPX_ConnectionClParameters  Connection establishment  TSPX_connection establishment	sed in connection
TSPX_Direction2  DirectionChoice  Direction for ATM to be used in control of the stablishment  TSPX_Direction2_ATM  DirectionChoice  Direction for ATM to be usestablishment  TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ArqUsage  ARQ to be used in control of the co	connection establishment
TSPX_Direction_ATM  DirectionChoice  Direction for ATM to be destablishment  TSPX_Direction2_ATM  DirectionChoice  Direction for ATM to be destablishment  TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ArQ to be used in connectionSPX_ArqUsage_ATM  ArqUsage  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage2_ATM  ArqUsage  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ConnectionCIParameters  ConnectionCIParameters	
TSPX_Direction2_ATM  DirectionChoice  Direction for ATM to be destablishment  TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to destablishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to destablishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ARQ to be used in connection for Ethernet to destablishment  ArqUsage  ARQ to be used in connection for Ethernet to destablishment  ArqUsage  ARQ to be used in connection for Ethernet to destablishment  ArqUsage  ARQ for ATM to be used destablishment  ArqUsage  ARQ for ATM to be used destablishment  ArqUsage  ARQ for Ethernet to be destablishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be destablishment  TSPX_connectionClParameters  ConnectionClParameters  ConnectionClParameters	
TSPX_Direction_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ARQ to be used in connection and arqusage  ARQ to be used in connection and arqusage  ARQ for ATM to be used in connection and arqusage  Arqusage  Arqusage  Arqusage  ARQ for ATM to be used establishment  Arqusage  ARQ for ATM to be used establishment  Arqusage  ARQ for Ethernet to be used establishment  TSPX_Arqusage_ETH  Arqusage  ARQ for Ethernet to be used establishment  TSPX_Arqusage2_ETH  Arqusage  ARQ for Ethernet to be used establishment  TSPX_connectionClParameters  ConnectionClParameters  ConnectionClParameters	used in connection
TSPX_Direction2_ETH  DirectionChoice  Direction for Ethernet to establishment  TSPX_ArqUsage  ArqUsage  ArqUsage  ARQ to be used in connoction for Ethernet to establishment  ArqUsage  ARQ to be used in connoction ARQ for ATM to be used establishment  ArqUsage  ArqUsage  ArqUsage  ARQ for ATM to be used establishment  ArqUsage  ARQ for ATM to be used establishment  ArqUsage  ARQ for Ethernet to be used establishment  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_connectionClParameters  ConnectionClParameters  ConnectionClParameters	be used in connection
TSPX_ArqUsage ArqUsage ArqUsage ARQ to be used in connection CIParameters  ARQ to be used in connection CIParameters  ARQ for ATM to be used establishment  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for Ethernet to be used in connection CIParameters  Connection CIParameters  Connection CIParameters	be used in connection
TSPX_ArqUsage2 ArqUsage ARQ to be used in connection CIParameters  ArqUsage ARQ to be used in connection CIParameters  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for ATM to be used establishment  ArqUsage ARQ for Ethernet to be used establishment  Connection CIParameters Connection CIParameters  Connection CIParameters	anting antablishment
TSPX_ArqUsage_ATM  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage2_ATM  ArqUsage  ARQ for ATM to be used establishment  ARQ for ATM to be used establishment  ARQ for ATM to be used establishment  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  ARQ for Ethernet to be used establishment  TSPX_connectionCIParameters  ConnectionCIParameters  ConnectionCIParameters	
restablishment  TSPX_ArqUsage2_ATM  ArqUsage  ARQ for ATM to be used establishment  TSPX_ArqUsage_ETH  ArqUsage  ARQ for Ethernet to be used establishment  TSPX_ArqUsage2_ETH  ArqUsage  ARQ for Ethernet to be used establishment  ArqUsage  ARQ for Ethernet to be used establishment  ConnectionCIParameters  ConnectionCIParameters  ConnectionCIParameters	
rspx_ArqUsage_ETH	
TSPX_connectionClParameters    Sestablishment   ArqUsage   ARQ for Ethernet to be usablishment	
TSPX_connectionClParameters	used in connection
connection establishmer	used in connection
TSPX_connectionClParameters1	s to be used in
TSPX_connectionClParameters2	s to be used in
TSPX_connectionClParameters_ATM	s to be used in
TSPX_connectionClParameters2_ATM	s to be used in
TSPX_connectionClParameters_ETH	s to be used in
TSPX_connectionClParameters2_ETH	s to be used in
TSPX_pmAssociation PmAssociation PmAssociation establishment	
	to be used in connection
	to be used in connection
TSPX_pmAssociation_ETH	
TSPX_pmAssociation2_ETH PmAssociation PmAssociation for Ether connection establishmer	net to be used in
TSPX_ContentionFlag	
TSPX_ContentionFlag_ATM  ContentionFlag  ContentionFlag  ContentionFlag  Connection establishmer	
TSPX_ContentionFlag2_ATM ContentionFlag ContentionFlag ContentionFlag Connection establishmer	16
TSPX_ContentionFlag_ETH  ContentionFlag  ContentionFlag  ContentionFlag  ContentionFlag  ContentionFlag  Connection establishmer	
TSPX_ContentionFlag2_ETH  ContentionFlag  ContentionFlag  ContentionFlag ContentionFlag for Ethel connection establishmer	nt rnet to be used in

**Table C.23: Connection change Parameters** 

TSPX_Clid2	Clid	Clid to be used in connection change
TSPX_Direction2	DirectionChoice	Direction to be used in connection change
TSPX_ArqUsage2	ArqUsage	ARQ to be used in connection change

Table C.24: RIcHandoverCmd message Parameters

TSPX Apcld	Apcld	Apcld to be used for sending RlcHandoverCmd message

# 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 this international standard document.

# 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 he 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 of the present document) and there are no "FAIL" verdicts to be recorded (in clause D.6 of the present document) 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 of the present document) 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 itemizes 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-SI-BV-001	Yes/No	Yes/No		
TP-AT-INC-PA-BV-000	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		

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
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-RA-BV-017	Yes/No	Yes/No		
TP-AT-INC-RA-BV-018	Yes/No	Yes/No		
TP-AT-INC-RA-BV-019	Yes/No	Yes/No		
TP-AT-INC-RA-BV-020	Yes/No	Yes/No		
TP-AT-INC-RA-BV-021	Yes/No	Yes/No		
TP-AT-INC-RA-BV-022	Yes/No	Yes/No		
TP-AT-INC-RA-BV-023	Yes/No	Yes/No		
TP-AT-INC-RA-BV-024	Yes/No	Yes/No		
TP-AT-INC-RA-BV-025	Yes/No	Yes/No		
TP-AT-INC-RA-BV-026	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		
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	1	
TP-AT-RRC-PT-BV-005	Yes/No	Yes/No	1	
TP-AT-RRC-PT-BV-006	Yes/No	Yes/No	1	
TP-AT-RRC-PT-BV-007	Yes/No	Yes/No	-	
TP-AT-RRC-PT-BV-008	Yes/No	Yes/No	-	
TP-AT-RRC-PT-BV-009 TP-AT-RRC-LL-BV-000	Yes/No	Yes/No	<del> </del>	
== =	Yes/No	Yes/No	<del> </del>	
TP-AT-SEC-IA-BV-000	Yes/No	Yes/No	<del> </del>	
TP-AT-SEC-IA-BV-001 TP-AT-SEC-IA-BV-002	Yes/No	Yes/No Yes/No		
TP-AT-SEC-IA-BV-002 TP-AT-SEC-IA-BV-003	Yes/No		-	
TP-AT-SEC-IA-BV-003 TP-AT-SEC-RE-BV-000	Yes/No Yes/No	Yes/No Yes/No		
TP-AT-SEC-RE-BV-001	Yes/No	Yes/No		
TP-AT-SEC-KR-BV-000 TP-AT-SEC-KU-BV-000	Yes/No Yes/No	Yes/No Yes/No		
			-	
TP-AT-SEC-KU-BV-001 TP-AT-SEC-KU-BV-002	Yes/No Yes/No	Yes/No Yes/No	-	
TP-AT-SEC-RU-BV-002	Yes/No	Yes/No	+	
TP-AT-COC-CE-BV-000	Yes/No	Yes/No	1	
11 -41-000-0E-DV-001	162/140	162/110	]	

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
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		
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-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-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./	Observations
	nformation 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 this international standard document.

# 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
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.
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.
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 of the present document) and there are no "FAIL" verdicts to be recorded (in clause D.6 of the present document) 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 of the present document) strike the words "did or" otherwise strike the words "or did not".
Summary of the results of groups of test:
C Cotation and a management and a contract of the contract of
E.5 Static conformance review report
If clause D.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.
If clause D.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.
If clause D.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.
If clause D.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.
If clause D.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static conformance 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-RA-BV-010	Yes/No	Yes/No		
TP-AP-INC-RA-BV-011	Yes/No	Yes/No		
TP-AP-INC-RA-BV-012	Yes/No	Yes/No		
TP-AP-INC-RA-BV-013	Yes/No	Yes/No		

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
TP-AP-INC-RA-BV-014	Yes/No	Yes/No		,
TP-AP-INC-RA-BV-015	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-PN-BV-005	Yes/No	Yes/No		
TP-AP-INC-PN-BV-006	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 TP-AP-INC-OC-BV-003	Yes/No Yes/No	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-007	Yes/No	Yes/No		
TP-AP-INC-OC-BV-008	Yes/No	Yes/No		
TP-AP-RRC-LS-BV-000	Yes/No	Yes/No	<del> </del>	
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-LS-BV-006	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		
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 TP-AP-SEC-RE-BV-000	Yes/No Yes/No	Yes/No Yes/No		
TP-AP-SEC-KR-BV-000	Yes/No	Yes/No		
TP-AP-SEC-KR-BV-000	Yes/No	Yes/No	1	
TP-AP-SEC-KU-BV-000	Yes/No	Yes/No	+	
TP-AP-SEC-KU-BV-002	Yes/No	Yes/No		
TP-AP-SEC-KU-BV-002	Yes/No	Yes/No		+
TP-AP-SEC-KU-BV-004	Yes/No	Yes/No	†	
TP-AP-SEC-KU-BV-005	Yes/No	Yes/No	1	
TP-AP-SEC-KU-BV-006	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	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-008	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	<u> </u>	

ATS Reference	Selected?	Run?	Verdict	Observations (Reference to any observations made in clause 7)
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./ Observations
Additional information relevant to the technical content of the PCTR is given here.

# History

Document history				
V1.1.1	November 2002	Publication		