ETSITS 101 823-1-3 V1.4.1 (2004-08)

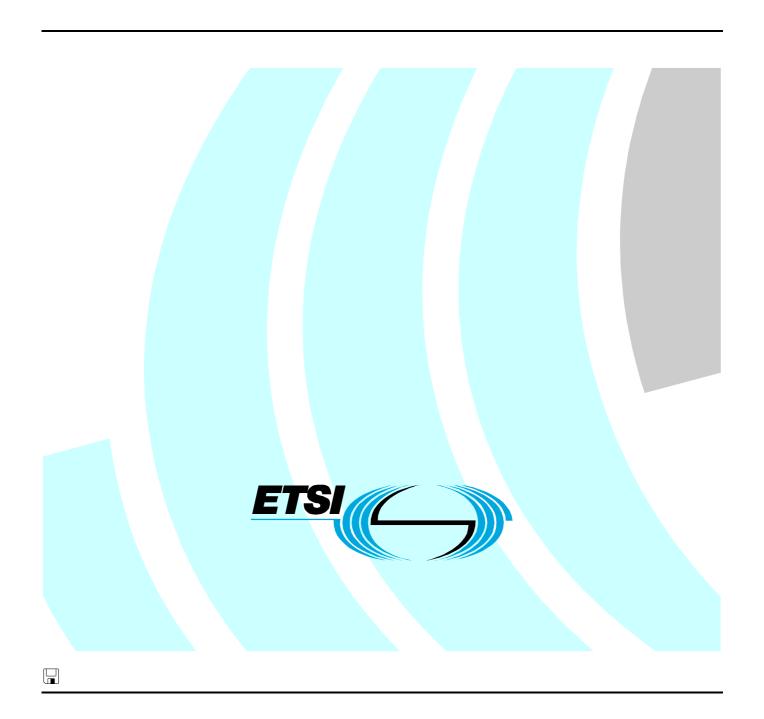
Technical Specification

Broadband Radio Access Networks (BRAN); HIPERLAN Type 2;

Conformance testing for the Data Link Control (DLC) layer;

Part 1: Basic data transport functions;

Sub-part 3: Abstract Test Suite (ATS) specification



Reference

RTS/BRAN-002T0C4-1-3

Keywords

access, ATS, basic, control, data, HIPERLAN, radio, testing, transport

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Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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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 1, sub-part 3 of a multi-part deliverable. Full details of the entire series can be found in part 1, sub-part 1 (see bibliography).

1 Scope

The present document contains the Abstract Test Suite (ATS) to test the BRAN HIPERLAN type 2; Data Link Control (DLC) layer; Part 1: Basic Data Transport Function.

The objective of the present document is to provide a basis for conformance tests for BRAN HIPERLAN type 2 equipment giving a high probability of air interface inter-operability between different manufacturer's BRAN HIPERLAN type 2 equipment.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [4] and ISO/IEC 9646-2 [5]) as well as the ETSI rules for conformance testing (ETS 300 406 [3]) 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 MT 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 MT 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.

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

| [1] | ETSI TS 101 761-1 (V1.3.1): "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; |
|-----|---|
| | Data Link Control (DLC) Layer; Part 1: Basic Data Transport Functions". |

- [2] ETSI TS 101 823-2-3: "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Conformance testing for the Data Link Control (DLC) layer; Part 2: Radio Link Control (RLC) sublayer; Sub-part 3: Abstract Test Suite (ATS) specification".
- [3] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [4] ISO/IEC 9646-1 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts". (See also ITU-T Recommendation X.290 (1995)).
- [5] ISO/IEC 9646-2 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract test suite specification". (See also ITU-T Recommendation X.291 (1995)).
- [6] ISO/IEC 9646-3 (1994): "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 (2002)).

| [7] | ISO/IEC 9646-6 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification". |
|------|---|
| [8] | ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement". |
| [9] | ETSI TS 101 823-1-2: "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Conformance testing for the Data Link Control (DLC) layer; Part 1: Basic data transport functions; Sub-part 2: Test Suite Structure and Test Purposes (TSS&TP) specification". |
| [10] | ETSI TS 101 493-3: "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Packet based Convergence Layer; Part 3: IEEE 1394 Service Specific Convergence Sublayer (SSCS)". |

3 Definitions and abbreviations

Access feedback CHannel

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ISO/IEC 9646-7 [8] and TS 101 761-1 [1] apply.

3.2 Abbreviations

ACH

PDU

PHY

For the purposes of the present document, the abbreviations defined in ISO/IEC 9646-1 [4], ISO/IEC 9646-6 [7], ISO/IEC 9646-7 [8], TS 101 761-1 [1] and the following apply:

| ACII | Access recuback Chainer |
|--------|----------------------------------|
| AP | Access Point |
| APT | Access Point Transceiver |
| ARQ | Automatic Repeat Request |
| ASP | Abstract Service Primitive |
| ATM | Abstract Test Method |
| ATS | Abstract Test Suite |
| BCH | Broadcast CHannel |
| BI | Invalid Behaviour |
| BO | Inopportune Behaviour |
| BV | Valid Behaviour |
| CA | Capability tests |
| CC | Central Controller |
| CC | Central Controller |
| CL | Convergence Layer |
| CRC | Cyclic Redundancy Check |
| DFS | Dynamic Frequency Selection |
| DLC | Data Link Control |
| DLCC | DLC Connection |
| DM | Direct Mode |
| DM | Direct Mode |
| DUC | DLC User Connection |
| НО | HandOver |
| IUT | Implementation Under Test |
| LCH | Long CHannel |
| LT | Lower Tester |
| MAC | Medium Access Control |
| MAC-ID | MAC IDentifier |
| MT | Mobile Terminal |
| PCL | Portable Channel List |
| PCO | Point of Control and Observation |
| PCTR | Protocol Conformance Test Report |
| | |

Protocol Data Unit

Physical layer

PICS Protocol Implementation Conformance Statement **RLC** Radio Link Control **RSA** Rivest Shamir Adleman (standard for asymmetric cryptography) Received Signal Strength RSS Service Access Point SAP **SCH** Short CHannel **SSCS** Service Specific Convergence Sublayer **SUT** System Under Test TC **Test Cases** TP Test Purposes **TSS** Test Suite Structure **TTCN** Tree and Tabular Combined Notation Upper Tester UT

4 Abstract Test Method (ATM)

This clause describes the ATM used to test the HIPERLAN 2 U-plane layer at the AP side and at the MT side.

4.1 Test architecture

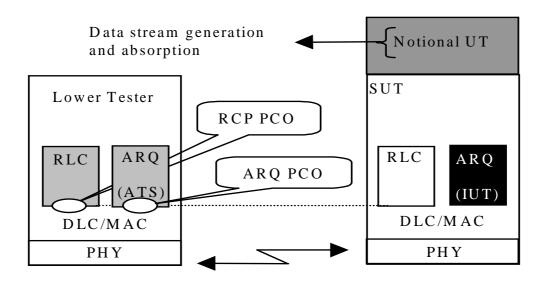


Figure 1: Test architecture for Error Control (RLC needed for association, etc.)

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 H/2 test system. It controls and observes the

behaviour of the IUT.

ARQ ATS: An ARQ Abstract Test Suite (ATS) is located in the remote BRAN H/2 test system.

ARQ PCO: The Point of Control and Observation (PCO) for ARQ testing is located at a SAP between the

Error Control layer and the MAC layer. All test events at the PCO are specified in terms of Abstract Testing Service Primitives defined in clause 7 and containing complete PDU. To avoid the complexity of data fragmentation and recombination testing, the SAP is defined below these

functions.

RCP PCO: The Point of Control and Observation (PCO) for RLC testing is located at a SAP between the RLC

layer and the MAC layer. All test events at the PCO are specified in terms of Abstract Testing Service Primitives defined in clause 7 and 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 9646. This notional UT is part of the test system.

4.2 Error control service model for testing

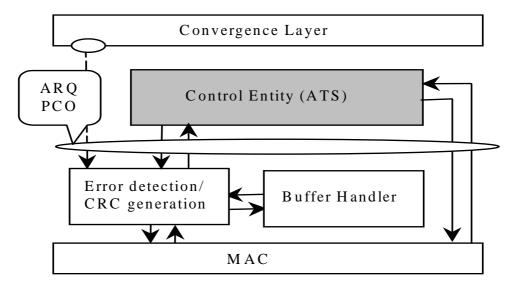


Figure 2: Error control service model for testing

Message Handler: Evaluate or generate CRC; Indicate erroneous PDU; Control read and write to or from

buffer handler; Add or Evaluate Sequence Number; Transmit or Receive PDU to or from

MAC and Convergence Layers controlled by the Control Entity.

Buffer Handler: Provide management of receive and transmit buffer.

Convergence Layer: Provide traffic generation and absorption capabilities.

Control Entity: Transmission: Handle the transmit window on a basis of sequence number; Evaluate ARQ

feedback messages (integrity check); Initiate re-transmission; Release correctly received

message from buffer; Handle errors (e.g. Initiation of Reset).

Reception: Handle the receive window including the knowledge of the buffer status; Generate ARQ feedback messages; Trigger the message handler to pass correct in-sequence PDU to the Convergence layer and to release buffer from the buffer handler; Handle errors

(e.g. Discarding).

4.3 Test Configurations

4.3.1 Test Configurations for MT

Tree configurations are defined for MT testing.



Figure 3: Normal configuration for MT

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

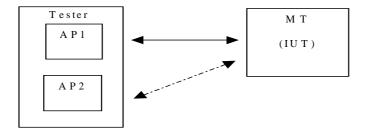


Figure 4: Handover configuration for MT

The handover configuration is used when the MT 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.

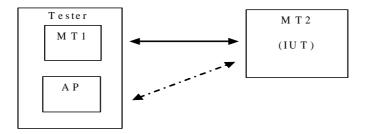


Figure 5: Direct mode configuration for MT

The direct mode configuration is used for direct mode testing. The test system simulates one AP and one MT. The AP part of the test system is used to initialize the direct mode with the tested MT. The MT part of the system is used to verify the communication of the tested MT when the direct mode is active. The concurrent TTCN facilities are used in this configuration.

4.3.2 Test Configurations for AP

Only one configuration is defined for AP testing.



Figure 6: Normal configuration for AP

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

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 [3] was considered.

6.1 Naming conventions

6.1.1 Declarations part

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

6.1.1.1 General

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

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

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

6.1.1.2 Test suite operations definition

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

EXAMPLE: TSO_substring

6.1.1.3 Test suite parameter declarations

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

EXAMPLE 1: TSP t wait.

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

EXAMPLE 2: TSPC_encryption_support.

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

EXAMPLE 3: TSPX_pid.

6.1.1.4 Test case selection expression definition

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

6.1.1.5 Test suite constant declarations

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

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

6.1.1.6 Test suite variable declarations

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

Complete names as defined in the protocol standard are used.

6.1.1.7 Test case variable declarations

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

Complete names as defined in the protocol standard are used.

6.1.1.8 Timer declarations

Two types of timers can be identified:

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

As there is a tolerance margin accepted for these timers, three values are needed:

- The maximum value allowed, which will use the suffix " max";
- The minimum value allowed, which will use the suffix "_min";
- The value actually implemented, with no suffix.

EXAMPLE 1: T201_max, T201_min, and T201.

2) Not standardized:

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

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

6.1.1.9 ASP type definitions

The general conventions in clause 6.1.1.1 apply.

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

6.1.1.10 PDU type definitions

The general conventions in clause 6.1.1.1 apply.

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

6.1.1.11 CM type definitions

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

6.1.1.12 Alias definitions

Alias definitions are not used.

6.1.2 Constraints part

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

6.1.2.1 General

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

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

EXAMPLE: Declaration part: HEADER_FIELD

Constraint part: Header_field_paging

6.1.3 Dynamic part

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

6.1.3.1 General

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

6.1.3.2 Test Case (TC) identifier

The identifier of the test case is built in the same way as for the test purpose described in TS 101 823-1-2 [9], 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 |
| | | MT | Mobile Terminal |
| | <pg> = protocol group</pg> | ECM | DLC Error Control service |
| | <fm> = functional module</fm> | AM | Acknowledge mode |
| | | RM | Repetition mode |
| | | UM | Unacknowledge mode |
| | x = Type of testing | CA | Capability Tests |
| | | BV | Valid Behaviour Tests |
| | | BI | Invalid Behaviour Tests |
| | | ВО | Inopportune Behaviour Tests |
| | <nnn> = sequential number</nnn> | (000-999) | Test Purpose Number |

EXAMPLE: TP identifier: TP/MT/ECM/AM/BV-010

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

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, causes 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. This allows 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 [6], annex E, clause E.2, labels should be written to the conformance log. This allows, for example, to identify were the test failed. To allow an exact identification of the table, in which the verdict was assigned, the convention described in clause 6.1.3.5 is applied.

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

7 Abstract testing service primitives

7.1 RLC PCO

7.1.1 Tester primitives

RLC_Configuration {parameters}

7.1.2 Centralized mode primitives

RLC_CM_request {MAC_ID, Length, SDU}

 $\pmb{RLC_CM_indication} \; \{ MAC_ID, Length, SDU \}$

7.1.3 Direct mode primitives

RLC_DM_request {Src_MAC_ID, Dst_MAC_ID, Length, SDU}

RLC_DM_indication {Src_MAC_ID, Dst_MAC_ID, Length, SDU}

7.2 Error control service PCO

7.2.1 Tester primitives

ERC_Configuration {Windowsize, etc.}

PCL_StartDataGeneration {DUC_ID, Transfer_rate, Type (default: streaming)}

 ${\bf PCL_StopDataGeneration}~\{{\tt DUC_ID}\}$

PCL_StartErrorGeneration {DUC_ID}

 $\begin{picture}(c) \hline PCL_StopErrorGeneration & DUC_ID \\ \hline \end{picture}$

7.2.2 Acknowledge mode primitives

 $SCH_ARQ feedback_request~ \{ \texttt{DUC_ID}, \texttt{SDU} \}$

 $SCH_ARQ feedback_indication \ \{DUC_ID, SDU\}$

SCH_Discard_message_request {DUC_ID, SDU}

 $SCH_Discard_message_indication~ \{DUC_ID, SDU\}$

ACM_ResetSN {DUC_ID, NewSN}

7.2.3 U-plane exchange primitives

UPM Reception indication {DUC ID, Correct Indication, SN, Number of available stores}

UPM_Transmission_indication {DUC_ID, Correct_Indication, SN, Number_of_available_stores}

UPM_Transmission_request {DUC_ID}

UPM_Discard_request {DUC_ID, SN} (discard PDUs up to and excluding SN)

UPM_Release_request {DUC_ID, SN} (release PDUs up to and excluding SN)

7.3 Coordination between RLC and Error control

 $CM_Reset_request~ \{ \texttt{DUC_ID} \} ~to~ RLC$

CM_Reset_indication {DUC_ID} from RLC

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 [6].

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™ file (hip2_v015.PDF contained in archive hip2_test.ZIP) which is provided together with TS 101 823-2-3 [2]. The PDF file contains also the TTCN.GR representations for all other parts of the HIPERLAN 2 Specifications testing.

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

The TTCN.MP representations corresponding to the ATS is contained in ASCII file (hip2_v015.MP contained in archive hip2_test.ZIP) which is provided together with TS 101 823-2-3 [2]. The MP file contains also the TTCN.MP representations for all other parts of the HIPERLAN 2 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 H/2 DLC Error Control MT

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants users of the present document to 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 [7]. Any needed additional information can be found in this international standard.

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 101 761-1 |
|-------------------------|---|
| Protocol to be tested: | |
| ATS Specification: | TS 101 823-1-3 (the present document) |
| Abstract Test Method: | TS 101 823-1-3 (the present document), clause 4 |

B.3 Test laboratory

Table B.3

| Test Laboratory Identification: | |
|---------------------------------|--|
| rest 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 H/2 - DLC layer TS 101 761-1 [1] |
|------------------|---------------------------------------|
| Version: | |
| PICS References: | |

B.6.2 IUT information

Table B.7: Configuration parameters

| Name/Type | Comments | Value |
|-----------------|---|-------|
| TSPX_net_id1 | Value of the NET_ID parameter for the | |
| NET_ID | entity 1 of the tester. | |
| TSPX_ap_id1 | Value of the AP_ID parameter for the | |
| AP_ID | entity 1 of the tester. | |
| TSPX_sector1 | Value of the SECTOR_ID parameter for | |
| SECTOR_ID | the entity 1 of the tester. | |
| TSPX_number1 | Value of the number of sector parameter | |
| SECTOR_ID | for the entity 1 of the tester. | |
| TSPX_tx1 | Value of the AP_TX_LEVEL parameter | |
| AP_TX_LEVEL | for the entity 1 of the tester. | |
| TSPX_rx1 | Value of the AP_RX_UL_LEVEL | |
| AP_RX_UL_LEVEL | parameter for the entity 1 of the tester. | |
| TSPX_vers1 | Value of the VERSION parameter for the | |
| VERSION | entity 1 of the tester. | |
| TSPX_load1 | Value of the AP_TRAFFIC_LOAD | |
| AP_TRAFFIC_LOAD | parameter for the entity 1 of the tester. | |
| TSPX_max1 | Value of the MAXIMUM_POWER | |
| MAXIMUM_POWER | parameter for the entity 1 of the tester. | |
| TSPX_net_id2 | Value of the NET_ID parameter for the | |
| NET_ID | entity 2 of the tester. | |
| TSPX_ap_id2 | Value of the AP_ID parameter for the | |
| AP_ID | entity 2 of the tester. | |
| TSPX_sector2 | Value of the SECTOR_ID parameter for | |
| SECTOR_ID | the entity 2 of the tester. | |
| TSPX_number2 | Value of the number of sector parameter | |
| SECTOR_ID | for the entity 2 of the tester. | |
| TSPX_tx2 | Value of the AP_TX_LEVEL parameter | |
| AP_TX_LEVEL | for the entity 2 of the tester. | |
| TSPX_rx2 | Value of the AP_RX_UL_LEVEL | |
| AP_RX_UL_LEVEL | parameter for the entity 2 of the tester. | |
| TSPX_vers2 | Value of the VERSION parameter for the | |
| VERSION | entity 2 of the tester. | |
| TSPX_load2 | Value of the AP_TRAFFIC_LOAD | |
| AP_TRAFFIC_LOAD | parameter for the entity 2 of the tester. | |
| TSPX_max2 | Value of the MAXIMUM_POWER | |
| MAXIMUM_POWER | parameter for the entity 2 of the tester. | |

Table B.8: General parameters

| Name/Type | Comments | Value |
|---------------------------|--|-------|
| TSPX_duc_descr | Content of the DUC_DESCR defining | |
| DUC_DESCR | full duplex DUC. | |
| TSPX_mtu_value | Value of the maximum transmission unit | |
| INTEGER | used by the Convergence Layer to be | |
| | tested. | |
| TSPX_lch_phy_mode | Content of the LCH phy mode for ARQ. | |
| REPORTED_PHY_MODE | | |
| TSPX_sch_phy_mode | Content of the SCH phy mode for ARQ. | |
| REPORTED_PHY_MODE | | |
| TSPX_magic | Content of the MAGIC field. | |
| MAGIC | | |
| TSPX_opId | Content of the BOOLEAN field. | |
| BOOLEAN | | |
| TSPX_macID | Content of the MAC_ID field. | |
| MAC_ID | | |
| TSPX_unique_length | Content of the UNIQUE_LENGTH field. | |
| UNIQUE_LENGTH | | |
| TSPX_cug | Content of the C_U_G field. | |
| C_U_G | | |
| TSPX_op_id_local | Content of the NETW_OP_ID_LOCAL | |
| NETW_OP_ID_LOCAL | field. | |
| TSPX_op_id_global | Content of the NETW_OP_ID_GLOBAL | |
| NETW_OP_ID_GLOBAL | field. | |
| TSPX_profile_vid_list | Content of the PROFILE_VID_LIST | |
| PROFILE_VID_LIST | field. | |
| TSPX_opid_lo_no_match | Value of the Local Op_ld field that does | |
| NETW_OP_ID_LOCAL | not match with the allowed MT list. | |
| TSPX_opid_gl_no_match | Value of the Global Op_ld field that | |
| NETW_OP_ID_GLOBAL | does not match with the allowed MT list. | |
| TSPX_profile_vid_no_match | Value of the Profile_Vid_list field in | |
| PROFILE_VID_LIST | which every Profile_Vid does not match | |
| | with any of the allowed MT list. | |

Table B.9: Specific parameters for testing

| Name/Type | Comments | Value |
|--------------------------------|---|----------|
| TSPX_apt_address_length1 | Content of the APT_ADDRESS_LENGTH | |
| APT_ADDRESS_LENGTH | field. | |
| TSPX_profile_vid_list1 | Content of the PROFILE_VID_LIST field. | |
| PROFILE_VID_LIST | | |
| TSPX_rss_value1 | Content of the RSS_VALUE field. | |
| RSS_VALUE | | |
| TSPX_supported64QAM1 | Content of the SUPPORTED64QAM field. | |
| SUPPORTED64QAM | | |
| TSPX_direct_mode_cap1 | Content of the DIRECT_MODE_CAP field. | |
| DIRECT_MODE_CAP | | |
| TSPX_cyclic_prefix1 | Content of the CYCLIC_PREFIX field. | |
| CYCLIC_PREFIX | Content of the of GEIG_I RELIANTICIA. | |
| TSPX_support_fca1 | Content of the SUPPORTED FCA field. | |
| SUPPORTED_FCA | Content of the SOLT ONTED_I OA held. | |
| TSPX_support_fsa1 | Content of the SUPPORTED_FSA field. | |
| SUPPORTED_FSA | Content of the SOLT ONTED_LOAD field. | |
| TSPX_ho_cap1 | Content of the HO_CAP field. | |
| HO_CAP | Content of the HO_CAP field. | |
| TSPX_cc_ho_cap1 | Content of the CC_HO_CAP field. | |
| CC_HO_CAP | Content of the CC_HO_CAP field. | |
| | Content of the TIME CAR ACID LIDI INIX | |
| TSPX_time_gap1 | Content of the TIME_GAP_ACH_UPLINK field. | |
| TIME_GAP_ACH_UPLINK | | |
| TSPX_duty_cycle1 | Content of the DUTY_CYCLE field. | |
| DUTY_CYCLE | 0 | |
| TSPX_arq_delay_rx1 | Content of the RX ARQ_DELAY field. | |
| ARQ_DELAY | | |
| TSPX_arq_delay_tx1 | Content of the TX ARQ_DELAY field. | |
| ARQ_DELAY | | <u> </u> |
| TSPX_auth_encr_list1 | Content of the | |
| AUTHENTICATION_ENCRYPTION_LIST | AUTHENTICATION_ENCRYPTION_LIST | |
| | field. | <u> </u> |
| TSPX_dm_attributes1 | Content of the DM_ATTIBUTES field. | |
| DM_ATTIBUTES | | |
| TSPX_cl_vid_present1 | Content of the CL_VID_PRESENT field. | |
| CL_VID_PRESENT | | |
| TSPX_cl_vid_list1 | Content of the CL_VID_LIST field. | |
| CL_VID_LIST | | |
| TSPX_dm_use_common_key1 | Content of the DM_USE_COMMON_KEY | |
| DM_USE_COMMON_KEY | field. | |
| TSPX_freq_band1 | Content of the FREQUENCY_BAND field. | |
| FREQUENCY_BAND | | |
| TSPX_frequency_index1 | Content of the FREQUENCY_INDEX field. | |
| FREQUENCY_INDEX | | |
| TSPX_last_mac_frame | Content of the LAST_MAC_FRAME field. | |
| LAST_MAC_FRAME | | |
| | | |

Table B.10: Home extension authentication parameters

| Name/Type | Comments | Value |
|---|--|-------|
| TSPX_valid_key | Content of the valid_key field for | |
| VALID_KEY | authentication. | |
| TSPX_auth_key_length AUTH KEY LENGTH | Content of the auth_key_length field for authentication. | |
| TSPX_pin_code_length PIN_CODE_LENGTH | Content of the pin_code_length field for authentication. | |
| TSPX_auth_key | Content of the auth_key field for | |
| AUTH_KEY | authentication. | |
| TSPX_pin_code | Content of the pin_code field for | |
| PIN_CODE | authentication. | |
| TSPX_mt_id_number_lgth | Content of the Length of mt_id_number | |
| MT_ID_NUMBER_LENGTH | field for authentication. | |
| TSPX_mt_id_number | Content of the mt_id_number field for | |
| MT_ID_NUMBER | authentication. | |

Table B.11: Authentication parameters

| Name/Type | Comments | Value |
|---|--|-------|
| TSPX_auth_content_ieee MT_AUTH_CONTENT | Authentication content for ieee. | |
| TSPX_auth_ct_ext_ieee MT_AUTH_CONTENT | Authentication content for ext. ieee. | |
| TSPX_auth_ct_net_acc_id MT_AUTH_CONTENT | Authentication content for net_acc_id. Short length (≤ 46 octets) first part. | |
| TSPX_auth_ct_net_acc_id_l1 MT_AUTH_CONTENT | Authentication content for net_acc_id. Long length (> 46 octets) first part. | |
| TSPX_auth_ct_net_acc_id_l2 MT_AUTH_CONTENT | Authentication content for net_acc_id. Long length (> 46 octets) second part. | |
| TSPX_auth_ct_compressed MT_AUTH_CONTENT | Authentication content for compressed. | |
| TSPX_auth_ct_generic MT_AUTH_CONTENT | Authentication content for generic. Short length (≤ 46 octets) first part. | |
| TSPX_auth_ct_generic_l1 MT_AUTH_CONTENT | Authentication content for generic. Long length (> 46 octets) first part. | |
| TSPX_auth_ct_generic_l2 MT_AUTH_CONTENT | Authentication content for generic. Long length (> 46 octets) second part. | |
| TSPX_auth_ct_distinguished_name MT_AUTH_CONTENT | Authentication content for Distinguished name Short length (≤ 46 octets) first part | |
| TSPX_auth_ct_distinguished_name_l1 MT_AUTH_CONTENT | Authentication content for Distinguished name Long length (> 46 octets) first part. | |
| TSPX_auth_ct_distinguished_name_l2 MT_AUTH_CONTENT | Authentication content for Distinguished name Long length (> 46 octets) second part. | |

Table B.12: Encryption parameters

| Name/Type | Comments | Value |
|-------------------|-----------------------------------|-------|
| TSPX_PresharedKey | Value of the Pre Shared Key. | |
| B_128 | | |
| TSPX_Rsa512Key | Value of the RSA 512 public Key. | |
| B_512 | | |
| TSPX_Rsa768Key | Value of the RSA 768 public Key. | |
| B_768 | | |
| TSPX_Rsa1024Key | Value of the RSA 1024 public Key. | |
| B_1024 | | |
| TSPX_ApprivateKey | Value of the AP private Key. | |
| B_1_1024 | | |

Table B.13: DM COMMON KEY distribution message

| Name/Type | Comments | Value |
|--------------------------------|--------------------------------|-------|
| TSPX_ck_encr_info ENCR_INFO | Value of the encr_info field. | |
| TSPX_ck_key_id KEY_ID | Value of the Key_ld field. | |
| TSPX_common_key COMMON_KEY | Value of the common key field. | |

Table B.14: COMMON KEY REFRESH message

| Name/Type | Comments | Value |
|------------|---------------------------|-------|
| TSPX_nonce | Value of the nonce field. | |
| NONCE | | |

Table B.15: INFO message

| Name/Type | Comments | Value |
|---------------------|---|-------|
| TSPX_cl_data | Value of the cl data field. | |
| CL_DATA | | |
| TSPX_dlc_attributes | Value of the dlc attributes field. | |
| DLC_ATTRIBUTES | | |
| TSPX_cl_atm_data | Content of the cl data field in case of atm | |
| CL_DATA | uni SSCS. | |
| TSPX_cl_atm_hn_data | Content of the cl data field in case of | |
| CL_DATA | network handover for atm uni SSCS. | |
| TSPX_cl_eth_data | Content of the cl data field in case of | |
| CL_DATA | Ethernet SSCS. | |
| TSPX_cl_eth_hn_data | Content of the cl data field in case of | |
| CL_DATA | network handover for Ethernet SSCS. | |

Table B.16: TRANS_CC_DATA message

| Name/Type | Comments | Value |
|--------------|--|-------|
| TSPX_ext_ind | Value of the ext_ind field for CC | |
| EXT_IND | responsibility handover testing in case of | |
| | home extension. | |
| TSPX_data | Value of the data field for CC | |
| DATA | responsibility handover testing in case of | |
| | home extension. | |

Table B.17: DM Power Control message

| Name/Type | Comments | Value |
|------------------|-------------------------------|-------|
| TSPX_dm_duc_type | Content of dm_duc_type field. | |
| DM_DUC_TYPE | | |
| TSPX_wt_tx_level | Content of wt_tx_level field. | |
| WT_TX_LEVEL | | |
| TSPX_adjust_tx | Content of adjust_tx field. | |
| ADJUST_TX | • | |

Table B.18: Setup message

| Name/Type | Comments | Value |
|---------------------|----------------------------------|-------|
| TSPX_cl_id | Content of Cl_Id field. | |
| CL_ID | | |
| TSPX_duc_ext_ind | Content of duc_ext_ind field. | |
| DUC_EXT_IND | | |
| TSPX_cl_attr_lgth | Content of cl_attr_lgth field. | |
| INTEGER | | |
| TSPX_duc_descr_list | Content of duc_descr_list field. | |
| DUC DESCR LIST | | |

Table B.19: DM_Setup message

| Name/Type | Comments | Value |
|---------------------|----------------------------------|-------|
| TSPX_peer_mac_id | Content of perr_mac_id field. | |
| MAC_ID | | |
| TSPX_cl_common_attr | Content of cl_common_attr field. | |
| CL_COMMON_ATTR | | |

Table B.20: DM MC Setup message

| Name/Type | Comments | Value |
|------------------------|-------------------------------------|-------|
| TSPX_min_req_receivers | Content of min_req_receivers field. | |
| INTEGER | | |

Table B.21: Modify Req message

| Name/Type | Comments | Value |
|-------------------------------------|----------------------------------|-------|
| TSPX_duc_ext_ind2 | Content of duc_descr_ind field. | |
| DUC_EXT_IND | | |
| TSPX_cl_attr_lgth2 INTEGER | Content of cl_attr_lgth field. | |
| TSPX_duc_descr_list2 DUC DESCR LIST | Content of duc_descr_list field. | |

Table B.22: DM Modify Req message

| Name/Type | Comments | Value |
|-------------------------------------|----------------------------------|-------|
| TSPX_cl_attr_lgth3 INTEGER | Content of cl_attr_lgth field. | |
| TSPX_duc_descr_list3 DUC_DESCR_LIST | Content of duc_descr_list field. | |

Table B.23: DM MC Modify Req message

| Name/Type | Comments | Value |
|---|-----------------------------------|-------|
| TSPX_cl_attr_lgth4 INTEGER | Content of cl_attr_lgth field. | |
| TSPX_start_mac_frame START_MAC_FRAME | Content of start_mac_frame field. | |
| TSPX_duc_descr_list4 DUC_DESCR_LIST | Content of duc_descr_list field. | |

Table B.24: GROUP_JOIN message

| Name/Type | Comments | Value |
|-------------------------------|-----------------------------------|-------|
| | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field. | |
| TSPX_cl_data2 | Value of the cl data field. | |
| CL DATA | | |

Table B.25: GROUP_JOIN message for home extension

| Name/Type | Comments | Value |
|-------------------------------|-------------------------------------|-------|
| | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field for home extension | |
| | testing. | |
| TSPX_cl_data_HE | Value of the cl data field for home | |
| CL_DATA | extension testing. | |

Table B.26: GROUP_JOIN message for 1394 bridge

| Name/Type | Comments | Value |
|-------------------------------|--|-------|
| TSPX_encryption_proposal_1394 | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field for 1394 bridge | |
| | testing. | |
| TSPX_cl_data_1394 | Value of cl data field for 1394 bridge | |
| CL_DATA_1394 | testing. | |

Table B.27: GROUP_JOIN message for the forwarding clock mc group

| Name/Type | Comments | Value |
|---|---|-------|
| TSPX_encryption_proposal_1394_fw ENCRYPTION_ALGORITHM_PROPOSAL | Value of the encryption algorithm proposal field for the forwarding clock mc group in case of 1394 testing. | |
| TSPX_cl_data_1394_fw CL_DATA_1394 | Value of cl data field for the forwarding clock mc group in case of 1394 testing. | |

Table B.28: GROUP_JOIN message for the forwarding channel of an asynchronous stream

| Name/Type | Comments | Value |
|--|--|-------|
| TSPX_encryption_proposal_1394_fw_as ENCRYPTION_ALGORITHM_PROPOSAL | Value of the encryption algorithm proposal used for sending GROUP_JOIN message for the forwarding channel of an asynchronous stream in case of 1394 testing. | |
| TSPX_cl_data_1394_fw_as CL_DATA_1394 | Value of the cl data used for sending GROUP_JOIN message for the forwarding channel of an asynchronous stream in case of 1394 testing. | |

Table B.29: GROUP_JOIN_ACK message for 1394 testing

| Name/Type | Comments | Value |
|----------------------|-------------------|-------|
| TSPX_macID_multicast | Multicast MAC_ID. | |
| MAC_ID | | |

Table B.30: CL_BROADCAST_JOIN message

| Name/Type | Comments | Value |
|-------------------------------|-----------------------------------|-------|
| TSPX_encryption_proposal2 | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field. | |
| TSPX_cl_data3 | Value of the cl data field. | |
| CL DATA | | |

Table B.31: DFS_MT_INIT_REPORT_REQUEST message

| Name/Type | Comments | Value |
|---|--|-------|
| TSPX_measurement_type MEASUREMENT_TYPE | Value of the measurement_type field. | |
| TSPX_frequency_index FREQUENCY_INDEX | Content of frequency_index field. | |
| TSPX_adjacent_ch_interference ADJACENT_CH_INTERFERENCE | Content of adjacent_ch_interference field. | |

Table B.32: DFS_MEASUREMENT_REQUEST message

| Name/Type | Comments | Value |
|-------------------------------------|--|-------|
| TSPX_frequency_index_2 | Value of the frequency_index field for | |
| FREQUENCY_INDEX | message of type complete, | |
| | percentiles or short. | |
| TSPX_use_omni_antenna | Value of the use_omni_antenna field | |
| USE_OMNI_ANTENNA | for message of type complete, | |
| | percentiles or short. | |
| TSPX_start_of_measurement | Value of the start_of_measurement | |
| START_OF_MEASUREMENT | field for message of type complete, | |
| | percentiles or short. | |
| TSPX_measurement_window | Value of the measurement_window | |
| MEASUREMENT_WINDOW | field for message of type complete, | |
| | percentiles or short. | |
| TSPX_maximum_age_of_bch_measurement | Value of the | |
| MAXIMUM_AGE_OF_BCH_MEASUREMENT | maximum_age_of_bch_measurement | |
| | field for message of type complete or | |
| | short. | |
| TSPX_rss_index_list | Value of the rss_index_list field for | |
| RSS_INDEX_LIST | message of type complete. | |
| TSPX_length_of_measurement | Value of the length_of_measurement | |
| NUMBER_OF_SAMPLES | field for message of type short. | |

Table B.33: Calibration_measurement_trigger message

| Name/Type | Comments | Value |
|-------------------|--|-------|
| TSPX_trigger_type | Value of the trigger_type field for | |
| TRIGGER_TYPE | message of type complete. | |
| TSPX_mac_ids | Value of the mac_ids field for message | |
| MAC_IDS | of type complete. | |

Table B.34: Sleep message

| Name/Type | Comments | Value |
|---|---------------------------------------|-------|
| TSPX_sleep_group SLEEP_GROUP | Value of the sleep_group field. | |
| TSPX_care_of_broadcast CARE_OF_BROADCAST | Value of the care_of_broadcast field. | |

Table B.35: MT_ALIVE_REQUEST message

| Name/Type | Comments | Value |
|------------------------|---------------------------------------|-------|
| TSPX_mt_alive_interval | Value of the mt_alive_interval field. | |
| MT ALIVE INTERVAL | | |

Table B.36: HO INFO DISTRIBUTION message

| Name/Type | Comments | Value |
|--------------------|------------------------------|-------|
| TSPX_token | Content of TOKEN field. | |
| TOKEN | | |
| TSPX_token_auth | Content of TOKEN_AUTH field. | |
| MT_TOKEN_AUTH_ENCR | | |

Table B.37: RLC_TEST_MODE_SETUP message

| Name/Type | Comments | Value |
|--------------------------------|---------------------------|-------|
| TSPX_test_mode_type | Type of test mode. | |
| TEST_MODE | | |
| TSPX_test_mode_duc_fwbw_descry | Test mode DUC descriptor. | |
| TEST_MODE_DUC_FWBW_DESCR | | |

Table B.38: HARP message for 1394 testing

| Name/Type | Comments | Value |
|-----------------|-------------------------------|-------|
| TSPX_physicalID | Physical ID for HARP request. | |
| PHYSICAL_ID | | |
| TSPX_fwdbit | Fwd bit for HARP request. | |
| FWD_BIT | · | |
| TSPX_bus_ID | BUS_ID for HARP request. | |
| BUS_ID | | |

Table B.39: BUS_RESET message

| Name/Type | Comments | Value |
|-------------------------------|-------------------------------------|-------|
| TSPX_cl_attributes_1394_reset | Value of the cl attributes used for | |
| CL_ATTRIBUTES_BUS_RESET_1394 | sending BUS_RESET in case of | |
| | 1394 testing. | |

Table B.40: BUS_SUSPEND information element

| Name/Type | Comments | Value |
|-----------------|--|-------|
| TSPX_bs_length | Content of length field in cl_attributes for | |
| INTEGER | TS 101 493-3 [10]. | |
| TSPX_bs_info | Content of information field in | |
| OCTETSTRING | cl_attributes for TS 101 493-3 [10]. | |
| TSPX_bs1_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS SUSPEND information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one. | |
| TSPX_bs1_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | SUSPEND information element for | |
| | TS 101 493-3 [10] different from the | |
| T05)/ 0 1 | standard one. | |
| TSPX_bs2_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS SUSPEND information | |
| | element for TS 101 493-3 [10] different from the standard one and the first one. | |
| TSPX bs2 info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| OCIETSTRING | SUSPEND information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one and the first one. | |
| TSPX_bs3_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS SUSPEND information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one, the first one and | |
| | the second one. | |
| TSPX_bs3_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | SUSPEND information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one, the first one and the | |
| | second one. | |

Table B.41: BUS_RESUME information element

| Name/Type | Comments | Value |
|-----------------|---|-------|
| TSPX_br_length | Content of length field in cl_attributes for | |
| INTEGER | TS 101 493-3 [10]. | |
| TSPX_br_info | Content of information field in | |
| OCTETSTRING | cl_attributes for TS 101 493-3 [10]. | |
| TSPX_br1_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS RESUME information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one. | |
| TSPX_br1_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | RESUME information element for | |
| | TS 101 493-3 [10] different from the | |
| TODY I O I II | standard one. | |
| TSPX_br2_length | Content of length field in cl_attributes for | |
| INTEGER | TS 101 493-3 [10]. The resulting information element shall be different | |
| | from the first one. | |
| TSPX_br2_info | Content of information field in | |
| OCTETSTRING | cl_attributes for TS 101 493-3 [10]. The | |
| OCIETOTKING | resulting information element shall be | |
| | different from the first one. | |
| TSPX_br3_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS RESUME information | |
| 2021 | element for TS 101 493-3 [10] different | |
| | from the standard one, the first one and | |
| | the second one. | |
| TSPX_br3_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | RESUME information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one, the first one and the | |
| | second one. | |

Table B.42: 1394 clock channel pdu

| Name/Type | Comments | Value |
|--------------------------------------|--|-------|
| TSPX_bus_time BUS_TIME | For sending 1394 clock channel pdu. | |
| TSPX_cycle_time CYCLE_TIME | For sending 1394 clock channel pdu. | |
| TSPX_frame_counte FRAME_COUNTER_2 | For sending 1394 clock channel pdu. | |
| TSPX_local_seconds LOCAL_SECONDS | For sending 1394 clock channel pdu. | |
| TSPX_local_cycles LOCAL_CYCLES | For sending 1394 clock channel pdu. | |
| TSPX_snap_shot1 SNAP_SHOT | To create a snap shot in the IUT that match with the TSPX_frame_counter sent in a following clock channel message. | |
| TSPX_snap_shot2 SNAP_SHOT | To create a snap shot in the IUT that match not with the TSPX_frame_counter sent in a following clock channel message. | |

Table B.43: 1394 specific parameters

| Name/Type | Comments | Value |
|---|--|-------|
| TSPX_bandwidth BANDWIDTH | Isoch stream bandwidth request value. | |
| TSPX_bandwidth_2 BANDWIDTH | Isoch stream bandwidth request value for modifying the bandwidth. | |
| TSPX_isoch_nodes ISOCH_NODE_LIST | Isochronuos node list. | |
| TSPX_retry_code INTEGER | 1394 retry code, clause 6.2.4.4 of IEEE 1394-1995 (see bibliography). | |
| TSPX_strm_channel INTEGER | Stream Channel to be used for isoch. | |
| TSPX_allocate_some_handle ALLOCATE_SOME_HANDLE | Handle to be used for isoch. | |
| TSPX_1394_multi_mac_ID MAC_ID | Multicast MAC-ID for isochronous stream group. | |
| TSPX_dm_multicast_fail_sec INTEGER | The time in seconds the tester shall do nothing so that 1394 DM multicast setup will fail. No RLC_DM_MC_SETUP is sent to the WT. | |
| TSPX_delta_timer INTEGER | The duration of the delta timer (see TS 101 493-3 [10]). | |
| TSPX_event_indication_offset INTEGER | The offset to the EVENT INDICATION register. | |

Table B.44: Parameter for ARQ testing

| Name/Type | Comments | Value |
|------------------|---|-------|
| TSPX_window_size | Value of the window size used for testing the | |
| INTEGER | DUC connection (shall be small, i.e. 32). | |

Table B.45: Cell convergence layer configuration parameters

| Name/Type | Comments | Value |
|-----------------|---|-------|
| TSPX_cl_tag | CL_tag for Cell common part | |
| B_8 | convergence layer. | |
| TSPX_cl_tag_2 | Second CL_tag for Cell common part | |
| B_8 | convergence layer corresponding to the | |
| | same DLCC_ID as TSPX_cl_tag (second | |
| | VCI, VPI). | |
| TSPX_cl_tag_3 | Third CL_tag for Cell common part | |
| B_8 | convergence layer corresponding to the | |
| | same DLCC_ID as TSPX_cl_tag (third | |
| | VCI, VPI). | |
| TSPX_cl_tag_not | CL_tag for Cell common part | |
| B_8 | convergence layer in case of a non- | |
| | configured mapping for the DUC_ID | |
| | (MAC_ID, DLCC_ID) and the CL_Tag. | |
| TSPX_pt | Payload type for Cell common part | |
| B_3 | convergence layer | |
| TSPX_clp | Cell loss priority bit for Cell common part | |
| B_1 | convergence layer. | |

Table B.46: Implementation options

| Name/Type | Comments | Value |
|-------------------------|---|-------|
| TSPX_ext_IEEE | TRUE if the IUT support the Extended | |
| BOOLEAN | IEEE MT authentication. | |
| TSPX_net_acc_id | TRUE if the IUT support the Net. Acc. Id. | |
| BOOLEAN | MT authentication. | |
| TSPX_compressed | TRUE if the IUT support the | |
| BOOLEAN | Compressed MT authentication. | |
| TSPX_generic | TRUE if the IUT support the Generic MT | |
| BOOLEAN | authentication. | |
| TSPX_distinguished_name | TRUE if the IUT support the | |
| BOOLEAN | distinguished name MT authentication. | |
| TSPX_pre_shared | RUE if the IUT support the Pre-shared | |
| BOOLEAN | AP authentication. | |
| TSPX_RSA_512 | TRUE if the IUT support the | |
| BOOLEAN | RSA_signature_512 AP authentication. | |
| TSPX_RSA_768 | TRUE if the IUT support the | |
| BOOLEAN | RSA_signature_768 AP authentication. | |
| TSPX_RSA_1024 | TRUE if the IUT support the | |
| BOOLEAN | RSA_signature_1024 AP authentication. | |
| TSPX_test_mode | TRUE if the IUT support the test mode | |
| BOOLEAN | feature. | |
| TSPX_direct_mode | TRUE if the IUT support the Direct Mode | |
| BOOLEAN | Option. | |
| TSPX_disa_pwr_off | TRUE if the IUT support the | |
| BOOLEAN | Disassociation process at power off. | |

Annex C (normative): Partial PIXIT proforma for H/2 DLC Error Control AP

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants users of the present document to 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 [7]. Any needed additional information can be found in this international standard.

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 101 761-1 |
|-------------------------|---|
| Protocol to be tested: | |
| ATS Specification: | TS 101 823-1-3 (the present document) |
| Abstract Test Method: | TS 101 823-1-3 (the present document), 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 H/2 - DLC layer TS 101 761-1 [1] |
|------------------|---------------------------------------|
| Version: | |
| PICS References: | |

C.6.2 IUT information

Table C.7: Configuration parameters

| Name/Type | Comments | Value |
|-----------------|---|-------|
| TSPX_net_id1 | Value of the NET_ID parameter for the | |
| NET_ID | entity 1 of the tester. | |
| TSPX_ap_id1 | Value of the AP_ID parameter for the | |
| AP_ID | entity 1 of the tester. | |
| TSPX_sector1 | Value of the SECTOR_ID parameter for | |
| SECTOR_ID | the entity 1 of the tester. | |
| TSPX_number1 | Value of the number of sector parameter | |
| SECTOR_ID | for the entity 1 of the tester. | |
| TSPX_tx1 | Value of the AP_TX_LEVEL parameter | |
| AP_TX_LEVEL | for the entity 1 of the tester. | |
| TSPX_rx1 | Value of the AP_RX_UL_LEVEL | |
| AP_RX_UL_LEVEL | parameter for the entity 1 of the tester. | |
| TSPX_vers1 | Value of the VERSION parameter for the | |
| VERSION | entity 1 of the tester. | |
| TSPX_load1 | Value of the AP_TRAFFIC_LOAD | |
| AP_TRAFFIC_LOAD | parameter for the entity 1 of the tester. | |
| TSPX_max1 | Value of the MAXIMUM_POWER | |
| MAXIMUM_POWER | parameter for the entity 1 of the tester. | |
| TSPX_net_id2 | Value of the NET_ID parameter for the | |
| NET_ID | entity 2 of the tester. | |
| TSPX_ap_id2 | Value of the AP_ID parameter for the | |
| AP_ID | entity 2 of the tester. | |
| TSPX_sector2 | Value of the SECTOR_ID parameter for | |
| SECTOR_ID | the entity 2 of the tester. | |
| TSPX_number2 | Value of the number of sector parameter | |
| SECTOR_ID | for the entity 2 of the tester. | |
| TSPX_tx2 | Value of the AP_TX_LEVEL parameter | |
| AP_TX_LEVEL | for the entity 2 of the tester. | |
| TSPX_rx2 | Value of the AP_RX_UL_LEVEL | |
| AP_RX_UL_LEVEL | parameter for the entity 2 of the tester. | |
| TSPX_vers2 | Value of the VERSION parameter for the | |
| VERSION | entity 2 of the tester. | |
| TSPX_load2 | Value of the AP_TRAFFIC_LOAD | |
| AP_TRAFFIC_LOAD | parameter for the entity 2 of the tester. | |
| TSPX_max2 | Value of the MAXIMUM_POWER | |
| MAXIMUM_POWER | parameter for the entity 2 of the tester. | |

Table C.8: General parameters

| Name/Type | Comments | Value |
|---------------------------|--|-------|
| TSPX_duc_descr | Content of the DUC_DESCR defining | |
| DUC_DESCR | full duplex DUC. | |
| TSPX_mtu_value | Value of the maximum transmission unit | |
| INTEGER | used by the Convergence Layer to be | |
| | tested. | |
| TSPX_lch_phy_mode | Content of the LCH phy mode for ARQ. | |
| REPORTED_PHY_MODE | | |
| TSPX_sch_phy_mode | Content of the SCH phy mode for ARQ. | |
| REPORTED_PHY_MODE | | |
| TSPX_magic | Content of the MAGIC field. | |
| MAGIC | | |
| TSPX_opId | Content of the BOOLEAN field. | |
| BOOLEAN | | |
| TSPX_macID | Content of the MAC_ID field. | |
| MAC_ID | | |
| TSPX_unique_length | Content of the UNIQUE_LENGTH field. | |
| UNIQUE_LENGTH | | |
| TSPX_cug | Content of the C_U_G field. | |
| C_U_G | | |
| TSPX_op_id_local | Content of the NETW_OP_ID_LOCAL | |
| NETW_OP_ID_LOCAL | field. | |
| TSPX_op_id_global | Content of the NETW_OP_ID_GLOBAL | |
| NETW_OP_ID_GLOBAL | field. | |
| TSPX_profile_vid_list | Content of the PROFILE_VID_LIST | |
| PROFILE_VID_LIST | field. | |
| TSPX_opid_lo_no_match | Value of the Local Op_Id field that does | |
| NETW_OP_ID_LOCAL | not match with the allowed MT list. | |
| TSPX_opid_gl_no_match | Value of the Global Op_Id field that | |
| NETW_OP_ID_GLOBAL | does not match with the allowed MT list. | |
| TSPX_profile_vid_no_match | Value of the Profile_Vid_list field in | |
| PROFILE_VID_LIST | which every Profile_Vid does not match | |
| | with any of the allowed MT list. | |

Table C.9: Specific parameters for testing

| Name/Type | Comments | Value |
|--------------------------------|---|-------|
| TSPX_apt_address_length1 | Content of the APT_ADDRESS_LENGTH | |
| APT_ADDRESS_LENGTH | field. | |
| TSPX_profile_vid_list1 | Content of the PROFILE_VID_LIST field. | |
| PROFILE_VID_LIST | | |
| TSPX_rss_value1 | Content of the RSS_VALUE field. | |
| RSS_VALUE | | |
| TSPX_supported64QAM1 | Content of the SUPPORTED64QAM field. | |
| SUPPORTED64QAM | Someth of the Soft Fortiles (4) the hold. | |
| TSPX_direct_mode_cap1 | Content of the DIRECT_MODE_CAP field. | |
| DIRECT_MODE_CAP | Content of the Birteo1_WOBE_O/\(\text{incid.}\) | |
| TSPX_cyclic_prefix1 | Content of the CYCLIC_PREFIX field. | |
| CYCLIC_PREFIX | Content of the CTCLIC_FREFIX field. | |
| | Content of the SUPPORTED FCA field. | |
| TSPX_support_fca1 | Content of the SUPPORTED_FCA field. | |
| SUPPORTED_FCA | Content of the CURRORTER FOA 5: 11 | |
| TSPX_support_fsa1 | Content of the SUPPORTED_FSA field. | |
| SUPPORTED_FSA | | |
| TSPX_ho_cap1 | Content of the HO_CAP field. | |
| HO_CAP | | |
| TSPX_cc_ho_cap1 | Content of the CC_HO_CAP field. | |
| CC_HO_CAP | | |
| TSPX_time_gap1 | Content of the TIME_GAP_ACH_UPLINK | |
| TIME_GAP_ACH_UPLINK | field. | |
| TSPX_duty_cycle1 | Content of the DUTY_CYCLE field. | |
| DUTY_CYCLE | | |
| TSPX_arq_delay_rx1 | Content of the RX ARQ_DELAY field. | |
| ARQ_DELAY | <u> </u> | |
| TSPX_arq_delay_tx1 | Content of the TX ARQ_DELAY field. | |
| ARQ_DELAY | | |
| TSPX_auth_encr_list1 | Content of the | |
| AUTHENTICATION_ENCRYPTION_LIST | AUTHENTICATION_ENCRYPTION_LIST | |
| //emilianianiani | field. | |
| TSPX_dm_attributes1 | Content of the DM_ATTIBUTES field. | |
| DM_ATTIBUTES | Comment of the Bin_, thribo red field. | |
| TSPX_cl_vid_present1 | Content of the CL_VID_PRESENT field. | |
| CL_VID_PRESENT | Contont of the OL_VID_1 REGENT field. | |
| TSPX_cl_vid_list1 | Content of the CL_VID_LIST field. | |
| CL_VID_LIST | Content of the OL_VID_LIGIT field. | |
| | Content of the DM LISE COMMON VEV | |
| TSPX_dm_use_common_key1 | Content of the DM_USE_COMMON_KEY | |
| DM_USE_COMMON_KEY | field. | |
| TSPX_freq_band1 | Content of the FREQUENCY_BAND field. | |
| FREQUENCY_BAND | 0 | |
| TSPX_frequency_index1 | Content of the FREQUENCY_INDEX field. | |
| FREQUENCY_INDEX | | |
| TSPX_last_mac_frame | Content of the LAST_MAC_FRAME field. | |
| LAST_MAC_FRAME | | |

Table C.10: Home extension authentication parameters

| Name/Type | Comments | Value |
|------------------------|--|-------|
| TSPX_valid_key | Content of the valid_key field for | |
| VALID_KEY | authentication. | |
| TSPX_auth_key_length | Content of the auth_key_length field for | |
| AUTH_KEY_LENGTH | authentication. | |
| TSPX_pin_code_length | Content of the pin_code_length field for | |
| PIN_CODE_LENGTH | authentication. | |
| TSPX_auth_key | Content of the auth_key field for | |
| AUTH_KEY | authentication. | |
| TSPX_pin_code | Content of the pin_code field for | |
| PIN_CODE | authentication. | |
| TSPX_mt_id_number_lgth | Content of the Length of mt_id_number | |
| MT_ID_NUMBER_LENGTH | field for authentication. | |
| TSPX_mt_id_number | Content of the mt_id_number field for | |
| MT_ID_NUMBER | authentication. | |

Table C.11: Authentication parameters

| Name/Type | Comments | Value |
|---|--|-------|
| TSPX_auth_content_ieee MT_AUTH_CONTENT | Authentication content for ieee. | |
| TSPX_auth_ct_ext_ieee MT_AUTH_CONTENT | Authentication content for ext. ieee. | |
| TSPX_auth_ct_net_acc_id MT_AUTH_CONTENT | Authentication content for net_acc_id. Short length (≤ 46 octets) first part. | |
| TSPX_auth_ct_net_acc_id_l1 MT_AUTH_CONTENT | Authentication content for net_acc_id. Long length (> 46 octets) first part. | |
| TSPX_auth_ct_net_acc_id_l2 MT_AUTH_CONTENT | Authentication content for net_acc_id. Long length (> 46 octets) second part. | |
| TSPX_auth_ct_compressed MT_AUTH_CONTENT | Authentication content for compressed. | |
| TSPX_auth_ct_generic MT_AUTH_CONTENT | Authentication content for generic. Short length (≤ 46 octets) first part. | |
| TSPX_auth_ct_generic_l1 MT_AUTH_CONTENT | Authentication content for generic. Long length (> 46 octets) first part. | |
| TSPX_auth_ct_generic_l2 MT_AUTH_CONTENT | Authentication content for generic. Long length (> 46 octets) second part. | |
| TSPX_auth_ct_distinguished_name MT_AUTH_CONTENT | Authentication content for Distinguished name Short length (≤ 46 octets) first part | |
| TSPX_auth_ct_distinguished_name_l1 MT_AUTH_CONTENT | Authentication content for Distinguished name Long length (> 46 octets) first part. | |
| TSPX_auth_ct_distinguished_name_l2 MT_AUTH_CONTENT | Authentication content for Distinguished name Long length (> 46 octets) second part. | |

Table C.12: Encryption parameters

| Name/Type | Comments | Value |
|-------------------|-----------------------------------|-------|
| TSPX_PresharedKey | Value of the Pre Shared Key. | |
| B_128 | | |
| TSPX_Rsa512Key | Value of the RSA 512 public Key. | |
| B_512 | | |
| TSPX_Rsa768Key | Value of the RSA 768 public Key. | |
| B_768 | | |
| TSPX_Rsa1024Key | Value of the RSA 1024 public Key. | |
| B_1024 | | |
| TSPX_ApprivateKey | Value of the AP private Key. | |
| B_1_1024 | | |

Table C.13: DM COMMON KEY distribution message

| Name/Type | Comments | Value |
|-------------------|--------------------------------|-------|
| TSPX_ck_encr_info | Value of the encr_info field. | |
| ENCR_INFO | | |
| TSPX_ck_key_id | Value of the Key_ld field. | |
| KEY_ID | | |
| TSPX_common_key | Value of the common key field. | |
| COMMON_KEY | | |

Table C.14: COMMON KEY REFRESH message

| Name/Type | Comments | Value |
|------------|---------------------------|-------|
| TSPX_nonce | Value of the nonce field. | |
| NONCE | | |

Table C.15: INFO message

| Name/Type | Comments | Value |
|---------------------|---|-------|
| TSPX_cl_data | Value of the cl data field. | |
| CL_DATA | | |
| TSPX_dlc_attributes | Value of the dlc attributes field. | |
| DLC_ATTRIBUTES | | |
| TSPX_cl_atm_data | Content of the cl data field in case of atm | |
| CL_DATA | uni SSCS. | |
| TSPX_cl_atm_hn_data | Content of the cl data field in case of | |
| CL_DATA | network handover for atm uni SSCS. | |
| TSPX_cl_eth_data | Content of the cl data field in case of | |
| CL_DATA | Ethernet SSCS. | |
| TSPX_cl_eth_hn_data | Content of the cl data field in case of | |
| CL_DATA | network handover for Ethernet SSCS. | |

Table C.16: TRANS_CC_DATA message

| Name/Type | Comments | Value |
|--------------|--|-------|
| TSPX_ext_ind | Value of the ext_ind field for CC | |
| EXT_IND | responsibility handover testing in case of | |
| | home extension. | |
| TSPX_data | Value of the data field for CC | |
| DATA | responsibility handover testing in case of | |
| | home extension. | |

Table C.17: DM Power Control message

| Name/Type | Comments | Value |
|------------------|-------------------------------|-------|
| TSPX_dm_duc_type | Content of dm_duc_type field. | |
| DM_DUC_TYPE | | |
| TSPX_wt_tx_level | Content of wt_tx_level field. | |
| WT_TX_LEVEL | | |
| TSPX_adjust_tx | Content of adjust_tx field. | |
| ADJUST_TX | · | |

Table C.18: Setup message

| Name/Type | Comments | Value |
|------------------------------------|----------------------------------|-------|
| TSPX_cl_id CL_ID | Content of Cl_Id field. | |
| TSPX_duc_ext_ind DUC_EXT_IND | Content of duc_ext_ind field. | |
| TSPX_cl_attr_lgth INTEGER | Content of cl_attr_lgth field. | |
| TSPX_duc_descr_list DUC DESCR LIST | Content of duc_descr_list field. | |

Table C.19: DM_Setup message

| Name/Type | Comments | Value |
|---------------------|----------------------------------|-------|
| TSPX_peer_mac_id | Content of perr_mac_id field. | |
| MAC_ID | | |
| TSPX_cl_common_attr | Content of cl_common_attr field. | |
| CL_COMMON_ATTR | | |

Table C.20: DM MC Setup message

| Name/Type | Comments | Value |
|------------------------|-------------------------------------|-------|
| TSPX_min_req_receivers | Content of min_req_receivers field. | |
| INTEGER | | |

Table C.21: Modify Req message

| Name/Type | Comments | Value |
|-------------------------------|----------------------------------|-------|
| TSPX_duc_ext_ind2 | Content of duc_descr_ind field. | |
| DUC_EXT_IND | | |
| TSPX_cl_attr_lgth2 INTEGER | Content of cl_attr_lgth field. | |
| TSPX_duc_descr_list2 | Content of duc_descr_list field. | |
| DUC_DESCR_LIST | | |

Table C.22: DM Modify Req message

| Name/Type | Comments | Value |
|-------------------------------------|----------------------------------|-------|
| TSPX_cl_attr_lgth3 INTEGER | Content of cl_attr_lgth field. | |
| TSPX_duc_descr_list3 DUC_DESCR_LIST | Content of duc_descr_list field. | |

Table C.23: DM MC Modify Req message

| Name/Type | Comments | Value |
|---|-----------------------------------|-------|
| TSPX_cl_attr_lgth4 INTEGER | Content of cl_attr_lgth field. | |
| TSPX_start_mac_frame START_MAC_FRAME | Content of start_mac_frame field. | |
| TSPX_duc_descr_list4 DUC_DESCR_LIST | Content of duc_descr_list field. | |

Table C.24: GROUP_JOIN message

| Name/Type | Comments | Value |
|-------------------------------|-----------------------------------|-------|
| | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field. | |
| TSPX_cl_data2 | Value of the cl data field. | |
| CL_DATA | | ļ. |

Table C.25: GROUP_JOIN message for home extension

| Name/Type | Comments | Value |
|-------------------------------|-------------------------------------|-------|
| | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field for home extension | |
| | testing. | |
| TSPX_cl_data_HE | Value of the cl data field for home | |
| CL_DATA | extension testing. | |

Table C.26: GROUP_JOIN message for 1394 bridge

| Name/Type | Comments | Value |
|-------------------------------|--|-------|
| TSPX_encryption_proposal_1394 | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field for 1394 bridge | |
| | testing. | |
| TSPX_cl_data_1394 | Value of cl data field for 1394 bridge | |
| CL_DATA_1394 | testing. | |

Table C.27: GROUP_JOIN message for the forwarding clock mc group

| Name/Type | Comments | Value |
|---|---|-------|
| TSPX_encryption_proposal_1394_fw ENCRYPTION_ALGORITHM_PROPOSAL | Value of the encryption algorithm proposal field for the forwarding clock mc group in case of 1394 testing. | |
| TSPX_cl_data_1394_fw CL_DATA_1394 | Value of cl data field for the forwarding clock mc group in case of 1394 testing. | |

Table C.28: GROUP_JOIN message for the forwarding channel of an asynchronous stream

| Name/Type | Comments | Value |
|--|--|-------|
| TSPX_encryption_proposal_1394_fw_as ENCRYPTION_ALGORITHM_PROPOSAL | Value of the encryption algorithm proposal used for sending GROUP_JOIN message for the forwarding channel of an asynchronous stream in case of 1394 testing. | |
| TSPX_cl_data_1394_fw_as CL_DATA_1394 | Value of the cl data used for sending GROUP_JOIN message for the forwarding channel of an asynchronous stream in case of 1394 testing. | |

Table C.29: GROUP_JOIN_ACK message for 1394 testing

| Name/Type | Comments | Value |
|----------------------|-------------------|-------|
| TSPX_macID_multicast | Multicast MAC_ID. | |
| MAC_ID | | |

Table C.30: CL_BROADCAST_JOIN message

| Name/Type | Comments | Value |
|-------------------------------|-----------------------------------|-------|
| | Value of the encryption algorithm | |
| ENCRYPTION_ALGORITHM_PROPOSAL | proposal field. | |
| TSPX_cl_data3 | Value of the cl data field. | |
| CL DATA | | |

Table C.31: DFS_MT_INIT_REPORT_REQUEST message

| Name/Type | Comments | Value |
|--|--|-------|
| TSPX_measurement_type MEASUREMENT_TYPE | Value of the measurement_type field. | |
| <u> </u> | Content of frequency_index field. | |
| TSPX_adjacent_ch_interference | Content of adjacent_ch_interference field. | |

Table C.32: DFS_MEASUREMENT_REQUEST message

| Name/Type | Comments | Value |
|-------------------------------------|--|-------|
| TSPX_frequency_index_2 | Value of the frequency_index field for | |
| FREQUENCY_INDEX | message of type complete, | |
| | percentiles or short. | |
| TSPX_use_omni_antenna | Value of the use_omni_antenna field | |
| USE_OMNI_ANTENNA | for message of type complete, | |
| | percentiles or short. | |
| TSPX_start_of_measurement | Value of the start_of_measurement | |
| START_OF_MEASUREMENT | field for message of type complete, | |
| | percentiles or short. | |
| TSPX_measurement_window | Value of the measurement_window | |
| MEASUREMENT_WINDOW | field for message of type complete, | |
| | percentiles or short. | |
| TSPX_maximum_age_of_bch_measurement | Value of the | |
| MAXIMUM_AGE_OF_BCH_MEASUREMENT | maximum_age_of_bch_measurement | |
| | field for message of type complete or | |
| | short. | |
| TSPX_rss_index_list | Value of the rss_index_list field for | |
| RSS_INDEX_LIST | message of type complete. | |
| TSPX_length_of_measurement | Value of the length_of_measurement | |
| NUMBER_OF_SAMPLES | field for message of type short. | |

Table C.33: Calibration_measurement_trigger message

| Name/Type | Comments | Value |
|-------------------|--|-------|
| TSPX_trigger_type | Value of the trigger_type field for | |
| TRIGGER_TYPE | message of type complete. | |
| TSPX_mac_ids | Value of the mac_ids field for message | |
| MAC_IDS | of type complete. | |

Table C.34: Sleep message

| Name/Type | Comments | Value |
|------------------------|---------------------------------------|-------|
| TSPX_sleep_group | Value of the sleep_group field. | |
| SLEEP_GROUP | | |
| TSPX_care_of_broadcast | Value of the care_of_broadcast field. | |
| CARE_OF_BROADCAST | | |

Table C.35: MT_ALIVE_REQUEST message

| Name/Type | Comments | Value |
|------------------------|---------------------------------------|-------|
| TSPX_mt_alive_interval | Value of the mt_alive_interval field. | |
| MT ALIVE INTERVAL | | |

Table C.36: HO INFO DISTRIBUTION message

| Name/Type | Comments | Value |
|--------------------|------------------------------|-------|
| TSPX_token | Content of TOKEN field. | |
| TOKEN | | |
| TSPX_token_auth | Content of TOKEN_AUTH field. | |
| MT_TOKEN_AUTH_ENCR | | |

Table C.37: RLC_TEST_MODE_SETUP message

| Name/Type | Comments | Value |
|--------------------------------|---------------------------|-------|
| TSPX_test_mode_type | Type of test mode. | |
| TEST_MODE | | |
| TSPX_test_mode_duc_fwbw_descry | Test mode DUC descriptor. | |
| TEST_MODE_DUC_FWBW_DESCR | | |

Table C.38: HARP message for 1394 testing

| Name/Type | Comments | Value |
|-----------------|-------------------------------|-------|
| TSPX_physicalID | Physical ID for HARP request. | |
| PHYSICAL_ID | | |
| TSPX_fwdbit | Fwd bit for HARP request. | |
| FWD_BIT | | |
| TSPX_bus_ID | BUS_ID for HARP request. | |
| BUS_ID | | |

Table C.39: BUS_RESET message

| Name/Type | Comments | Value |
|-------------------------------|-------------------------------------|-------|
| TSPX_cl_attributes_1394_reset | Value of the cl attributes used for | |
| CL_ATTRIBUTES_BUS_RESET_1394 | sending BUS_RESET in case of 1394 | |
| | testing. | |

Table C.40: BUS_SUSPEND information element

| Name/Type | Comments | Value |
|-----------------|--|-------|
| TSPX_bs_length | Content of length field in cl_attributes for | |
| INTEGER | TS 101 493-3 [10]. | |
| TSPX_bs_info | Content of information field in | |
| OCTETSTRING | cl_attributes for TS 101 493-3 [10]. | |
| TSPX_bs1_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS SUSPEND information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one. | |
| TSPX_bs1_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | SUSPEND information element for | |
| | TS 101 493-3 [10] different from the | |
| T05)/ 0 1 | standard one. | |
| TSPX_bs2_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS SUSPEND information | |
| | element for TS 101 493-3 [10] different from the standard one and the first one. | |
| TSPX bs2 info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| OCIETSTRING | SUSPEND information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one and the first one. | |
| TSPX_bs3_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS SUSPEND information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one, the first one and | |
| | the second one. | |
| TSPX_bs3_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | SUSPEND information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one, the first one and the | |
| | second one. | |

Table C.41: BUS_RESUME information element

| Name/Type | Comments | Value |
|-----------------|--|-------|
| TSPX_br_length | Content of length field in cl_attributes for | |
| INTEGER | TS 101 493-3 [10]. | |
| TSPX_br_info | Content of information field in | |
| OCTETSTRING | cl_attributes for TS 101 493-3 [10]. | |
| TSPX_br1_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS RESUME information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one. | |
| TSPX_br1_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | RESUME information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one. | |
| TSPX_br2_length | Content of length field in cl_attributes for | |
| INTEGER | TS 101 493-3 [10]. The resulting | |
| | information element shall be different | |
| | from the first one. | |
| TSPX_br2_info | Content of information field in | |
| OCTETSTRING | cl_attributes for TS 101 493-3 [10]. The | |
| | resulting information element shall be | |
| | different from the first one. | |
| TSPX_br3_length | Content of length field in cl_attributes for | |
| INTEGER | sending a BUS RESUME information | |
| | element for TS 101 493-3 [10] different | |
| | from the standard one, the first one and | |
| TODY 1 0 : (| the second one. | |
| TSPX_br3_info | Content of information field in | |
| OCTETSTRING | cl_attributes for sending a BUS | |
| | RESUME information element for | |
| | TS 101 493-3 [10] different from the | |
| | standard one, the first one and the | |
| | second one. | |

Table C.42: 1394 clock channel pdu

| Name/Type | Comments | Value |
|--------------------------------------|--|-------|
| TSPX_bus_time BUS_TIME | For sending 1394 clock channel pdu. | |
| TSPX_cycle_time CYCLE_TIME | For sending 1394 clock channel pdu. | |
| TSPX_frame_counte FRAME_COUNTER_2 | For sending 1394 clock channel pdu. | |
| TSPX_local_seconds LOCAL_SECONDS | For sending 1394 clock channel pdu. | |
| TSPX_local_cycles LOCAL_CYCLES | For sending 1394 clock channel pdu. | |
| TSPX_snap_shot1 SNAP_SHOT | To create a snap shot in the IUT that match with the TSPX_frame_counter sent in a following clock channel message. | |
| TSPX_snap_shot2 SNAP_SHOT | To create a snap shot in the IUT that match not with the TSPX_frame_counter sent in a following clock channel message. | |

Table C.43: 1394 specific parameters

| Name/Type | Comments | Value |
|---|--|-------|
| TSPX_bandwidth BANDWIDTH | Isoch stream bandwidth request value. | |
| TSPX_bandwidth_2 BANDWIDTH | Isoch stream bandwidth request value for modifying the bandwidth. | |
| TSPX_isoch_nodes ISOCH_NODE_LIST | Isochronuos node list. | |
| TSPX_retry_code INTEGER | 1394 retry code, clause 6.2.4.4 of IEEE 1394-1995 (see bibliography). | |
| TSPX_strm_channel INTEGER | Stream Channel to be used for isoch. | |
| TSPX_allocate_some_handle ALLOCATE_SOME_HANDLE | Handle to be used for isoch. | |
| TSPX_1394_multi_mac_ID MAC_ID | Multicast MAC-ID for isochronous stream group. | |
| TSPX_dm_multicast_fail_sec INTEGER | The time in seconds the tester shall do nothing so that 1394 DM multicast setup will fail. No RLC_DM_MC_SETUP is sent to the WT. | |
| TSPX_delta_timer INTEGER | The duration of the delta timer (see TS 101 493-3 [10]). | |
| TSPX_event_indication_offset INTEGER | The offset to the EVENT INDICATION register. | |

Table C.44: Parameter for ARQ testing

| Name/Type | Comments | Value |
|------------------|---|-------|
| TSPX_window_size | Value of the window size used for testing the | |
| INTEGER | DUC connection (shall be small, i.e. 32). | |

Table C.45: Cell convergence layer configuration parameters

| Name/Type | Comments | Value |
|-----------------|---|-------|
| TSPX_cl_tag | CL_tag for Cell common part | |
| B_8 | convergence layer. | |
| TSPX_cl_tag_2 | Second CL_tag for Cell common part | |
| B_8 | convergence layer corresponding to the | |
| | same DLCC_ID as TSPX_cl_tag (second | |
| | VCI, VPI). | |
| TSPX_cl_tag_3 | Third CL_tag for Cell common part | |
| B_8 | convergence layer corresponding to the | |
| | same DLCC_ID as TSPX_cl_tag (third | |
| | VCI, VPI). | |
| TSPX_cl_tag_not | CL_tag for Cell common part | |
| B_8 | convergence layer in case of a | |
| | non-configured mapping for the DUC_ID | |
| | (MAC_ID, DLCC_ID) and the CL_Tag. | |
| TSPX_pt | Payload type for Cell common part | |
| B_3 | convergence layer | |
| TSPX_clp | Cell loss priority bit for Cell common part | |
| B_1 | convergence layer. | |

Table C.46: Implementation options

| Name/Type | Comments | Value |
|-------------------------|---|-------|
| TSPX_ext_IEEE | TRUE if the IUT support the Extended | |
| BOOLEAN | IEEE MT authentication. | |
| TSPX_net_acc_id | TRUE if the IUT support the Net. Acc. Id. | |
| BOOLEAN | MT authentication. | |
| TSPX_compressed | TRUE if the IUT support the | |
| BOOLEAN | Compressed MT authentication. | |
| TSPX_generic | TRUE if the IUT support the Generic MT | |
| BOOLEAN | authentication. | |
| TSPX_distinguished_name | TRUE if the IUT support the | |
| BOOLEAN | distinguished name MT authentication. | |
| TSPX_pre_shared | RUE if the IUT support the Pre-shared | |
| BOOLEAN | AP authentication. | |
| TSPX_RSA_512 | TRUE if the IUT support the | |
| BOOLEAN | RSA_signature_512 AP authentication. | |
| TSPX_RSA_768 | TRUE if the IUT support the | |
| BOOLEAN | RSA_signature_768 AP authentication. | |
| TSPX_RSA_1024 | TRUE if the IUT support the | |
| BOOLEAN | RSA_signature_1024 AP authentication. | |
| TSPX_test_mode | TRUE if the IUT support the test mode | |
| BOOLEAN | feature. | |
| TSPX_direct_mode | TRUE if the IUT support the Direct Mode | |
| BOOLEAN | Option. | |
| TSPX_disa_pwr_off | TRUE if the IUT support the | |
| BOOLEAN | Disassociation process at power off. | |

Annex D (normative): PCTR Proforma for H/2 DLC Error Control MT

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 [7]. Any needed additional information can be found in this international standard.

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 any: | |

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 present document, 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 present document. |
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| 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. |
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| D.2 IUT Conformance status |
| This IUT has or has not been shown by conformance assessment to be non conforming to the specified protocol specification. |
| Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements (as specified in clause D.3) and there are no "FAIL" verdicts to be recorded (in clause D.6) strike the words "has or", otherwise strike the words "or has not". |
| D.3 Static conformance summary |
| The PICS for this IUT is or is not consistent with the static conformance requirements in the specified protocol. |
| Strike the appropriate words in this sentence. |
| D.4 Dynamic conformance summary |
| The test campaign did or did not reveal errors in the IUT. |
| Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause $D.6$) strike the words "did or" otherwise strike the words "or did not". |
| Summary of the results of groups of test: |
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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. |
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D.6 Test campaign report

Table D.4

| ATS Reference | Selected? | Run? | Verdict | Observations (Reference to any observations made in clause 7) |
|---------------------|-----------|--------|---------|---|
| TC-MT-ECM-AM-CA-000 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-001 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-002 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-003 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-004 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-005 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-006 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-007 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-008 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-009 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-010 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-011 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-012 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-013 | Yes/No | Yes/No | | |
| TC-MT-ECM-AM-CA-014 | Yes/No | Yes/No | | |
| TC-MT-ECM-RM-CA-000 | Yes/No | Yes/No | | |
| TC-MT-ECM-UM-CA-000 | Yes/No | Yes/No | | |

| D.7 | Obser | vations |
|-----|-------------------------|---------|
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| Additional information relevant to the technical content of the PCTR is given here. | | |
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Annex E (normative): PCTR Proforma for H/2 DLC Error Control 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 [7]. Any needed additional information can be found in this international standard.

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 present document, 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 present document. |
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| 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. |
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| E.2 IUT Conformance status |
| This IUT has or has not been shown by conformance assessment to be non conforming to the specified protocol specification. |
| Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements (as specified in clause D.3) and there are no "FAIL" verdicts to be recorded (in clause D.6) strike the words "has or", otherwise strike the words "or has not". |
| E.3 Static conformance summary |
| The PICS for this IUT is or is not consistent with the static conformance requirements in the specified protocol. |
| Strike the appropriate words in this sentence. |
| E.4 Dynamic conformance summary |
| The test campaign did or did not reveal errors in the IUT. |
| Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause D.6) strike the words "did or" otherwise strike the words "or did not". |
| Summary of the results of groups of test: |
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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. |
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E.6 Test campaign report

Table E.4

| ATS Reference | Selected? | Run? | Verdict | Observations (Reference to any observations made in clause 7) |
|---------------------|-----------|--------|---------|---|
| TC-AP-ECM-AM-CA-000 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-001 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-002 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-003 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-004 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-005 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-006 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-007 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-008 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-009 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-010 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-011 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-012 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-013 | Yes/No | Yes/No | | |
| TC-AP-ECM-AM-CA-014 | Yes/No | Yes/No | | |
| TC-AP-ECM-RM-CA-000 | Yes/No | Yes/No | | |
| TC-AP-ECM-RM-CA-001 | Yes/No | Yes/No | | |
| TC-AP-ECM-UM-CA-000 | Yes/No | Yes/No | | |
| TC-AP-ECM-UM-CA-001 | Yes/No | Yes/No | | |
| TC-AP-ECM-UM-CA-002 | Yes/No | Yes/No | | |

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| Additional information relevant to the technical content of the PCTR is given here. |
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Annex F (informative): Bibliography

- ETSI TS 101 823-1-1: "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Conformance testing for the Data Link Control (DLC) layer; Part 1: Basic data transport functions; Sub-part 1: Protocol Implementation Conformance Statement (PICS) proforma".
- IEEE 1394-1995: "IEEE Standard for a High Peformance Serial Bus".

History

| Document history | | | | |
|------------------|----------------|-------------------------------|--|--|
| V1.1.1 | September 2000 | Publication | | |
| V1.1.1 | January 2001 | Publication as EN 301 823-1-3 | | |
| V1.2.1 | December 2001 | Publication | | |
| V1.3.1 | July 2003 | Publication | | |
| V1.4.1 | August 2004 | Publication | | |