



**millimetre Wave Transmission (mWT);  
Conformance Test Specification for Wireless Transport Profile  
for Standard SDN Northbound Interfaces;  
Part 3: Abstract Test Suite (ATS) and Partial Implementation  
eXtra Information for Testing (PIXIT)**

***Disclaimer***

---

The present document has been produced and approved by the millimetre Wave Transmission (mWT) ETSI Industry Specification Group (ISG) and represents the views of those members who participated in this ISG.  
It does not necessarily represent the views of the entire ETSI membership.

---

**Reference**

DGS/mWT-0029-3

---

**Keywords**

mWT, NBI, SDN, testing

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° w061004871

---

**Important notice**

The present document can be downloaded from the  
[ETSI Search & Browse Standards](#) application.

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver](#) repository.

Users should be aware that the present document may be revised or have its status changed,  
this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to  
the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our  
[Coordinated Vulnerability Disclosure \(CVD\)](#) program.

---

**Notice of disclaimer & limitation of liability**

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

---

**Copyright Notification**

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2024.  
All rights reserved.

# Contents

|   |           |
|---|-----------|
| Intellectual Property Rights .....                                    | 5         |
| Foreword.....   | 5         |
| Modal verbs terminology.....  | 5         |
| 1 Scope .....   | 6         |
| 2 References .....  | 6         |
| 2.1 Normative references .....  | 6         |
| 2.2 Informative references.....                                       | 6         |
| 3 Definition of terms, symbols and abbreviations.....                 | 7         |
| 3.1 Terms.....  | 7         |
| 3.2 Symbols.....  | 7         |
| 3.3 Abbreviations .....   | 7         |
| 4 Conformance testing configurations.....                             | 8         |
| 4.1 Introduction .....  | 8         |
| 4.2 Physical configuration.....                                       | 8         |
| 4.3 Test Configuration.....   | 9         |
| 4.3.1 Introduction.....   | 9         |
| 4.3.2 Config_mWT_1.....   | 9         |
| 4.3.4 Config_mWT_2.....   | 9         |
| 5 Verification functions.....   | 10        |
| 6 ATS conventions .....   | 11        |
| 6.1 Introduction .....  | 11        |
| 6.2 Naming conventions.....   | 11        |
| <b>Annex A (informative): ATS in Postman® .....</b>                   | <b>12</b> |
| A.1 Postman® collection files and other related modules .....         | 12        |
| <b>Annex B (normative): Partial PIXIT pro forma for Security.....</b> | <b>13</b> |
| B.1 The right to copy .....   | 13        |
| B.2 Introduction .....  | 13        |
| B.3 Identification summary.....                                       | 13        |
| B.4 ATS summary .....   | 13        |
| B.5 Test laboratory.....  | 14        |
| B.6 Client identification.....  | 14        |
| B.7 SUT .....   | 14        |
| B.8 Protocol layer information.....                                   | 15        |
| B.8.1 Protocol identification .....                                   | 15        |
| B.8.2 IUT information .....   | 15        |
| <b>Annex C (normative): PCTR pro forma for Security.....</b>          | <b>18</b> |
| C.1 The right to copy .....   | 18        |
| C.2 Introduction .....  | 18        |
| C.3 Identification summary.....                                       | 18        |
| C.3.1 Protocol conformance test report.....                           | 18        |
| C.3.2 IUT identification .....  | 18        |
| C.3.3 Testing environment.....  | 19        |
| C.3.4 Limits and reservation .....                                    | 19        |

|       |                                       |    |
|-------|---------------------------------------|----|
| C.3.5 | Comments.....                         | 19 |
| C.4   | IUT Conformance status .....          | 19 |
| C.5   | Static conformance summary .....      | 20 |
| C.6   | Dynamic conformance summary.....      | 20 |
| C.7   | Static conformance review report..... | 20 |
| C.8   | Test campaign report.....             | 20 |
| C.9   | Observations.....                     | 20 |
|       | History .....                         | 21 |

---

# Intellectual Property Rights

## Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the [ETSI IPR online database](#).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

## Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™**, **LTE™** and **5G™** logo are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

---

# Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) millimeter Wave Transmission (mWT).

The present document is part 3 of a multi-part deliverable covering Conformance Test Specification for Standard SDN northbound APIs, as identified below:

Part 1: "Implementation Conformance Statement (ICS)";

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

**Part 3: "Abstract Test Suite (ATS) and partial Implementation eXtra Information for Testing (PIXIT)".**

---

# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

---

# 1 Scope

The present document provides parts of the Abstract Test Suite (ATS) for ETSI GS mWT 024 [1], based on Postman® runtime based Scripts [i.1].

---

## 2 References

### 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found in the [ETSI docbox](#).

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] [ETSI GS mWT 024 \(V1.2.1\)](#): "millimetre Wave Transmission (mWT); Definition of a Wireless Transport Profile for Standard SDN Northbound Interfaces".
- [2] [IETF RFC 8453](#): "Framework for Abstraction and Control of TE Networks (ACTN)".
- [3] [ETSI GS mWT 029-1](#): "millimetre Wave Transmission (mWT); Conformance Test Specification for Wireless Transport Profile for Standard SDN Northbound Interfaces; Part 1: Implementation Conformance Statement (ICS)".

### 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] Single platform for collaborative API development.

NOTE 1: Available at [www.postman.com](http://www.postman.com).

NOTE 2: ETSI is not affiliated or sponsored by the Postman® API repository.

- [i.2] ISO/IEC 9646-6 (1994): "Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 6: Protocol profile test specification".

## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

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

**access ethernet link:** external ethernet link that is connected to a final user (e.g. NodeB), usually of UNI-C type

**domain:** (by default) entirety of the domain controlled by the PNC implementing the MPI under consideration

**edge ethernet LTP:** ethernet LTP that is connected to an external ethernet link

**ethernet connection:** bi-directional construct comprising two uni-directional ethernet links connecting a couple of ethernet LTPs

**external ethernet link:** ethernet link that has one termination inside and the other one outside of the domain managed by the PNC

**full ethernet connectivity:** complete reachability of all ethernet edge LTPs with one another

**homogeneous region:** subset of microwave network elements within a domain, that have full ethernet connectivity, and provide the same VLAN functionality on all edge LTPs

**inter-domain ethernet link:** external ethernet link that is connected to a transport domain (e.g. router, DWDM, etc.) or to another MW domain, usually of NNI type

**internal ethernet link:** ethernet link connecting Ethernet LTPs belonging the TE Ethernet topology of the domain managed by the PNC

**multi-region domain:** microwave domain that is composed internally by more than one homogeneous region, lacking full ethernet connectivity amongst them

**partial ethernet connectivity:** incomplete reachability of some ethernet edge LTPs with one another

**VLAN isolation:** capability of a homogeneous region to isolate the internal VLAN addressing space for path selection from any external one

**VLAN transparency:** lack of VLAN isolation capability by a homogeneous region

### 3.2 Symbols

Void.

### 3.3 Abbreviations

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

|      |  |
|------|--|
| API  | Application Programming Interface      |
| ATS  | Abstract Test Suite                    |
| BO   | Invalid Behaviour                      |
| BV   | Valid Behaviour                        |
| CBS  | Committed Burst Size                   |
| CIR  | Committed Information Rate             |
| DWDM | Dense Wavelength Division Multiplexing |
| EBS  | Excess Burst Size                      |
| EIR  | Excess Information Rate                |
| ETH  | ETHernet                               |
| ICS  | Implementation Conformance Statement   |
| IP   | Internet Protocol                      |
| LTP  | Link termination point                 |
| MDSC | Multi-Domain Service Coordinator       |

|       |  |
|-------|--|
| MPI   | MDSC-PNC Interface                                   |
| MW    | Microwave  |
| mWT   | millimetre Wave Transmission                         |
| NNI   | Network Network Interface                            |
| PCTR  | Protocol Conformance Test Report                     |
| PIXIT | Partial Implementation eXtra Information for Testing |
| PNC   | Provisioning Network Controller                      |
| RFC   | Request for Comments                                 |
| SAP   | Service Access Point                                 |
| SCS   | System Conformance Statements                        |
| SCTR  | System Conformance Test Report                       |
| SDN   | Software Defined Networking                          |
| SUT   | System Under Test                                    |
| TC    | Test case  |
| TE    | Traffic Engineering                                  |
| TP    | Test Purpose   |
| TP    | Test Purpose   |
| TS    | Test System  |
| TSS   | Test Suite Structure                                 |
| UNI-C | User Network Interface - Customer Edge               |
| VLAN  | Virtual Local Area Network                           |
| YANG  | Yet Another Next Generation                          |

---

## 4 Conformance testing configurations

### 4.1 Introduction

This clause describes the minimal physical configuration required to execute the conformance tests.

### 4.2 Physical configuration

One MW terminal provides a connection for the aggregated traffic of the services that will be provisioned in the "Root to Leaves test section.

The other terminal provides two ports for inter-domain traffic (named East and West) and one port for traffic locally terminated in the Domain (Local Port).



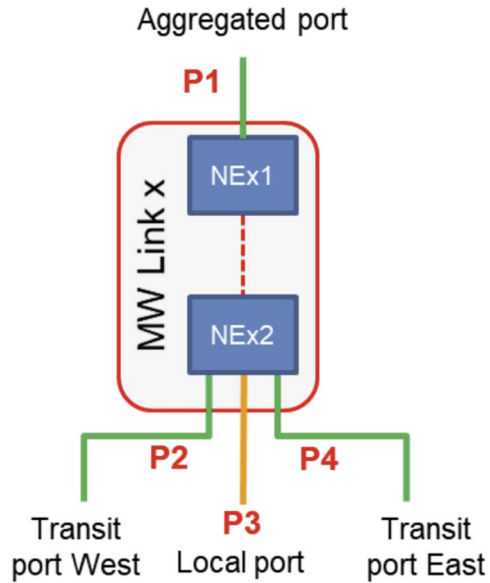


Figure 1: Minimalist physical configuration

## 4.3 Test Configuration

### 4.3.1 Introduction

This test suite uses two test configurations as defined in clauses below. The TS is performed by using Postman® [i.1].

### 4.3.2 Config\_mWT\_1

The MDSC is acting as the IUT. This configuration is used to test the interface between the MDSC and the PNC.

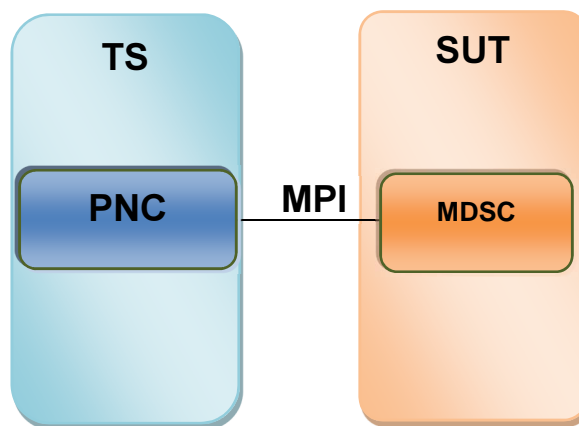


Figure 2: Config\_mWT\_1 to validate interface between IUT and the PNC

### 4.3.4 Config\_mWT\_2

The PNC is acting as the IUT. This configuration is used to test the interface between the PNC and the MDSC.

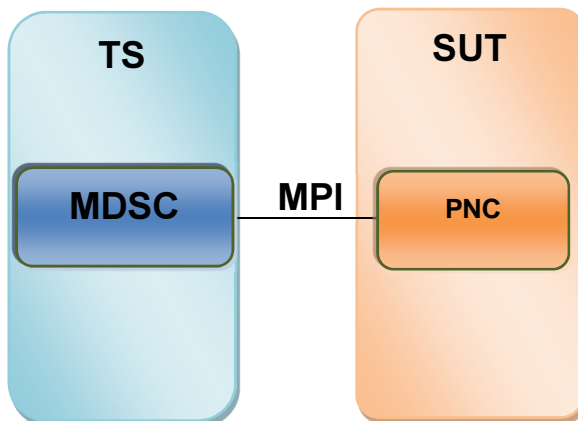


Figure 3: Config\_mWT\_2 to validate interface between IUT and the MDSC

## 5 Verification functions

The verification functions, described in table 1, have been developed scripting capability of Postman® [i.1].

Table 1: Verification functions

| Function                     | Role   |
|------------------------------|--|
| <b>COMMON</b>                |  |
| F1.1                         | Verify that the response status code is 200                                    |
| F1.2                         | Verify that the response status code is 201                                    |
| F1.3                         | Verify that the response status code is 204                                    |
| F1.4                         | Verify that the response status code is 400                                    |
| F1.5                         | Verify that the response status code is 404                                    |
| F2                           | Verify that headers.Content-Type is 'application/yang-data+json'               |
| F3                           | Parse Networks   |
| F4                           | Find MW network  |
| F5                           | Find ETH network   |
| F6                           | Find network nodes   |
| <b>RESTCONF</b>              |  |
| F10                          | Verify that the 'module' array is present and not empty                        |
| F11                          | Validate the main field is 'ietf-yang-library:modules-state'                   |
| F12                          | Verify that the 'module' array is present and not empty                        |
| F6                           | Verify that the basics YANG modules are supported                              |
| FF13                         | Verify ietf-restconf YANG modules  |
| <b>Black-Box</b>             |  |
| F20                          | Verify that the IUT does not provide any MW network topology                   |
| F21                          | The response body should contain information about networks                    |
| <b>Partially Transparent</b> |  |
| F30                          | Verify that microwave topology attributes contain all mandatory fields         |
| F31                          | Verify that microwave topology nodes contain all mandatory fields              |
| F32                          | Verify that microwave topology termination points contain all mandatory fields |
| F33                          | Verify that microwave topology termination points contain oper-status filed    |
| F34                          | Verify that microwave topology links contain all mandatory fields              |
| F35                          | Verify that Ethernet network information is present                            |
| F36                          | Verify that ethernet topology attributes contain all mandatory fields          |
| F37                          | Verify that ethernet topology nodes contain all mandatory fields               |
| F38                          | Verify that ethernet nodes contain oper-status filed                           |
| F39                          | Verify that ethernet termination points contain all mandatory fields           |
| F40                          | Verify that ethernet nodes contain Service access points                       |
| <b>Ethernet Services</b>     |  |
| F41                          | Verify that response contains ietf-eth-tran-service:etht-svc                   |
| F42                          | Verify that Ethernet services contain bandwidth profiles                       |
| F43                          | Verify that Ethernet services contain services instances                       |

## 6 ATS conventions

### 6.1 Introduction

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.

### 6.2 Naming conventions

Table 2 shows the test case naming convention, which follows the same naming convention as the test purposes.

**Table 2: TC naming convention**

| Identifier | TP_<root>_<tgt>_<gr>_<sub-gr>_<sn>_<x> | Sub-Group       | Category                         |
|------------|--|-----------------|----------------------------------|
|            | <root> = root                          | mWT             | mWT Conformance tests            |
|            | <tgt> = target                         | MDSC            | Multi-Domain Service Coordinator |
|            |  | PNC             | Provisioning Network Controller  |
|            | <gr> = group                           | RESTCONF        | RESTCONF support                 |
|            |  | ABSTRACT_BB     | Abstract Blackbox                |
|            |  | PARTIALLY_TRANS | Partially Transparent            |
|            | <gr> = sub-group                       | MW_TOPO         | Microwave topology               |
|            |  | ETH_TOPO        | Ethernet Topology                |
|            |  | ETH_SERVICE     | Ethernet Service                 |
|            | <sn> = test purpose sequential number  |                 | 01 to 99                         |
|            | <x> = category                         | BV              | Valid Behaviour tests            |
|            |  | BO              | Invalid Behaviour Tests          |

EXAMPLE: TP identifier: TP\_mWT\_PNC\_RESTCONF\_GET\_BV\_01  
 TC identifier: TC\_mWT\_PNC\_RESTCONF\_GET\_BV\_01

---

## Annex A (informative): ATS in Postman<sup>®</sup>

### A.1 Postman<sup>®</sup> collection files and other related modules

This test suite has been produced using Postman<sup>®</sup> [i.1].

ETSI GS mWT 024 [1] and IETF RFC 8453 [2] have been applied to develop this test suite.

The Postman<sup>®</sup> collections, which form parts of the present document, are accessible from the ETSI source repository:  
<https://forge.etsi.org/rep/mwt/northbound-api.git>.

---

## Annex B (normative): Partial PIXIT pro forma for Security

### B.1 The right to copy

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 Partial PIXIT pro forma in this annex so that it can be used for its intended purposes and may further publish the completed Partial PIXIT.

---

### B.2 Introduction

The PIXIT pro forma is based on ISO/IEC 9646-6.

---

### B.3 Identification summary

The Identification summary shall be as specified in table B.1.

**Table B.1: Identification summary**

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

---

### B.4 ATS summary

The ATS summary shall be as specified in table B.2.

**Table B.2: ATS summary**

|                         |                                   |
|-------------------------|-----------------------------------|
| Protocol Specification: | ETSI GS mWT 024 and IETF RFC 8453 |
| Protocol to be tested:  | mWT protocol                      |
| ATS Specification:      | ETSI GS mWT 024 and IETF RFC 8453 |
| Abstract Test Method:   | Clause 4                          |

## B.5 Test laboratory

The Test laboratory info shall be specified as in table B.3.

**Table B.3: Test laboratory info**

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

## B.6 Client identification

The Client identification shall be specified as in table B.4.

**Table B.4: Client identification**

|                           |  |
|---------------------------|--|
| Client Identification:    |  |
| Client Test manager:      |  |
| Test Facilities required: |  |

## B.7 SUT

SUT shall be specified as in table B.5.

**Table B.5: SUT**

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

## B.8 Protocol layer information

### B.8.1 Protocol identification

Protocol identification shall be as specified in table B.6.

**Table B.6: Protocol identification**

|                  |   |
|------------------|---|
| Name:            | mWT protocols ETSI GS mWT 024 and IETF RFC 8453 |
| Version:         |   |
| PICS References: | ETSI GS mWT 029-1                               |

### B.8.2 IUT information

mWT ATS PIXITs shall be as listed in table B.7.

**Table B.7: Relevant general PIXITs**

| Identifier                | Description       |  |
|---------------------------|-------------------|--|
| PX_IUT_IP_ADDRESS         | <b>Comment</b>    | Indicates the IP address of the IUT      |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_IUT_PROTOCOL           | <b>Comment</b>    | Indicates HTTP protocol (http or https)  |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> | https                                    |
| PX_IUT_IP_PORT            | <b>Comment</b>    | Indicates the protocol port              |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> | 443                                      |
| PX_ROOT_API               | <b>Comment</b>    | Indicated the IETF base URL              |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> | restconf/data                            |
| PX_USER                   | <b>Comment</b>    | The user login for the authentication    |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_PASSWD                 | <b>Comment</b>    | The user password for the authentication |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_ACCESS_TOKEN           | <b>Comment</b>    | Indicates a valid authorization token    |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_mWT_NETWORK_ID         | <b>Comment</b>    | Indicates a network identifier           |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_UNKNOWN_NETWORK_ID     | <b>Comment</b>    | Indicates an unknown network identifier  |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_NODE_ID                | <b>Comment</b>    | Indicates a node identifier              |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_UNKNOWN_NODE_ID        | <b>Comment</b>    | Indicates an unknown node identifier     |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_BANDWIDTH_PROFILE_NAME | <b>Comment</b>    | Indicates a bandwidth profile name       |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |
| PX_BANDWIDTH_PROFILE_TYPE | <b>Comment</b>    | Indicates a bandwidth profile type       |
|                           | <b>Type</b>       | charstring                               |
|                           | <b>Def. value</b> |  |

| Identifier              | Description       |  |
|-------------------------|-------------------|--|
| PX_ETHT_SVC_NAME        | <b>Comment</b>    | Indicates an ethernet service name   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_CIR_VALUE            | <b>Comment</b>    | CIR value  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_CBS_VALUE            | <b>Comment</b>    | CBS value  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_EIR_VALUE            | <b>Comment</b>    | EIR value  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_EBS_VALUE            | <b>Comment</b>    | EBS value  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_COLOR_AWARE          | <b>Comment</b>    | indicates whether the "color-aware" or "color-blind" property is employed by the bandwidth profile |
|                         | <b>Type</b>       | boolean  |
|                         | <b>Def. value</b> | true   |
| PX_COUPLING_FLAG        | <b>Comment</b>    | allows the choice between two modes of operation of the rate enforcement algorithm                 |
|                         | <b>Type</b>       | boolean  |
|                         | <b>Def. value</b> | false  |
| PX_ETH_SVC_TITLE        | <b>Comment</b>    | Ethernet service title   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_ETH_SVC_DESC         | <b>Comment</b>    | Ethernet service description   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_ETH_SVC_CUSTOMER     | <b>Comment</b>    | Ethernet service customer  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_ACCESS_NODE_ID_1     | <b>Comment</b>    | Access node identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_ACCESS_NODE_ID_2     | <b>Comment</b>    | Access node identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_LINK_AGGREG_ID_1     | <b>Comment</b>    | Link aggregation identifier  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> | true   |
| PX_LINK_AGGREG_ID_2     | <b>Comment</b>    | Link aggregation identifier  |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_I_D_LINK_W_ID        | <b>Comment</b>    | West interface for Access LTP identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_I_D_LINK_E_ID        | <b>Comment</b>    | East interface for Access LTP identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_ETH_CLIENT_ID        | <b>Comment</b>    | Ethernet client identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_ETH_TOPOLOGY_ID      | <b>Comment</b>    | Ethernet topology identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_LOCAL_ADMIN_STATUS_1 | <b>Comment</b>    | Local administrator identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |
| PX_LOCAL_ADMIN_STATUS_1 | <b>Comment</b>    | Local administrator identifier   |
|                         | <b>Type</b>       | charstring   |
|                         | <b>Def. value</b> |  |



| Identifier          | Description       |  |
|---------------------|-------------------|--|
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |
| PX_ETH_SVC_CUSTOMER | <b>Comment</b>    | West interface for Access LTP identifier |
|                     | <b>Type</b>       | charstring                               |
|                     | <b>Def. value</b> | true                                     |

---

## Annex C (normative): PCTR pro forma for Security

### C.1 The right to copy

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 pro forma in this annex so that it can be used for its intended purposes and may further publish the completed PCTR.

---

### C.2 Introduction

The PCTR pro forma is based on ISO/IEC 9646-6.

---

### C.3 Identification summary

#### C.3.1 Protocol conformance test report

A protocol conformance test report shall be as in table C.1.

**Table C.1: Protocol conformance test report**

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

#### C.3.2 IUT identification

An IUT shall be identified as specified in table C.2.

**Table C.2: IUT identification**

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

### C.3.3 Testing environment

The testing environment shall be as specified in table C.3.

**Table C.3: Testing environment**

|                                      |  |
|--------------------------------------|--|
| PIXIT Number:                        |  |
| ATS Specification:                   |  |
| Abstract Test Method:                |  |
| Means of Testing identification:     |  |
| Date of testing:                     |  |
| Conformance Log reference(s):        |  |
| Retention Date for Log reference(s): |  |

### C.3.4 Limits and reservation

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

.....

.....

.....

.....

.....

### C.3.5 Comments

Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.

.....

.....

.....

.....

.....

---

## C.4 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 C.3 in the present document) and there are no "FAIL" verdicts to be recorded (in clause C.6 in the present document) strike the words "has or", otherwise strike the words "or has not".*

---

## C.5 Static conformance summary

The PICS for this IUT is or is not consistent with the static conformance requirements in the specified protocol.

*Strike the appropriate words in this sentence.*

---

## C.6 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 C.8 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.7 Static conformance review report

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

.....

.....

.....

.....

.....

---

## C.8 Test campaign report

For the complete list of all test cases refer to the test control module of the file described in annex A of the present document.

---

## C.9 Observations

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

.....

.....

.....

.....

---

## History

| <b>Document history</b> |               |             |
|-------------------------|---------------|-------------|
| V1.1.1                  | December 2024 | Publication |
|                         |               |             |
|                         |               |             |
|                         |               |             |
|                         |               |             |