Methods for Testing and Specification (MTS); Internet Protocol Testing (IPT): IPv6 Core Protocol; Conformance Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma
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Pursuant to the ETSI IPR Policy, no investigation, 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.

Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Methods for Testing and Specification (MTS).
1 Scope

The present document specifies the Abstract Test Suite (ATS) for the core functions of the Internet Protocol, version 6, as defined in the specifications [11] through to [12]. The ATS is based on the requirements defined in the IPv6 requirements catalogue (TS 102 514 [2]) and the IPv6 test purposes (TS 102 515 [3]) and written according to the guidelines of TS 102 514 [2], ISO/IEC 9646-2 [5] and ETS 300 406 [9].

The objective of the present document is to provide a basis for conformance tests for IPv6 equipment giving a high probability of inter-operability between different manufacturer's IPv6 equipments.

Annex A provides the Tree and Tabular Combined Notation (TTCN-3) part of the ATS.
Annex B provides the Partial Protocol Implementation Extra Information for Testing (PIXIT) Proforma of the ATS.
Annex C provides the Protocol Conformance Test Report (PCTR) Proforma of the 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.

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

[9] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
3 Definitions and abbreviations

3.1 Definitions

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

abstract test case: Refer to ISO/IEC 9646-1 [4].

Abstract Test Method (ATM): Refer to ISO/IEC 9646-1 [4].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [4].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [4].

Lower Tester (LT): Refer to ISO/IEC 9646-1 [4].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [4].

3.2 Abbreviations

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

ATM  Abstract Test Method
ATS  Abstract Test Suite
ETS  Executable Test Suite
IETF  Internet Engineering Task Force
IPv6  Internet Protocol version 6
IUT  Implementation Under Test
MAC  Medium Access Control
MOT  Means Of Testing
PCO  Point of Control and Observation
PCTR  Protocol Conformance Test Report
PICS  Protocol Implementation Conformance Statement
PIXIT  Protocol Implementation eXtra Information for Testing
PTC  Parallel Test Component
SUT  System Under Test
TC  Test Case
TP  Test Purpose
TSS  Test Suite Structure

4 Abstract Test Method (ATM)

This clause describes the ATM used to test the IPv6 core functions as defined in the RFC specifications [11] through to [12]. The three following configurations have been developed to test the two different types of IUT, hosts and routers. Either a simple one-to-one connection between tester and IUT is established which serves as Point of Control and Observation (PCO) or the IUT is connected to two Parallel Test Components (PTCs) that act as router or host respectively.
4.1 Configuration cfCore01

Figure 1 shows the configuration cfCore01. This is the basic configuration for router or host tests. PTC01 simulates a router.

4.2 Configuration cfCore02

Figure 2 shows cfCore02. The IUT is a router. PTC01 and PTC02 simulate hosts. CfCore02_Hs01 is used in the case where only 1 interface of the IUT is tested.

4.3 Configuration cfCore03

Figure 3 shows cfCore03. The IUT is a host. PTC01 and PTC02 simulate routers. At start time of a test case PTC1 RT01 is considered to be the default router of the host acting as IUT. CfCore03_Rt01 shall be used in the case where only the interface between RT01 and the IUT is tested.
5 Untestable and not implemented Test Purposes (TP)

The ATS is comprised of 271 TC. Those were derived from a total of 396 TP.

5.1 Untestable TP

This clause gives a list of 80 TP, which are not implemented in the ATS due to the chosen ATM or other restrictions:

TP_COR_1092_01, TP_COR_1089_01, TP_COR_1034_01, TP_COR_1008_01, TP_COR_1814_01,
TP_COR_1086_01, TP_COR_1122_01, TP_COR_9012_01, TP_COR_1272_01, TP_COR_9016_01,
TP_COR_9017_01, TP_COR_9018_01, TP_COR_9019_01, TP_COR_8009_01, TP_COR_1225_01,
TP_COR_1276_01, TP_COR_1282_01, TP_COR_1282_02, TP_COR_1256_01, TP_COR_1263_01,
TP_COR_1250_01, TP_COR_1292_01, TP_COR_1471_01, TP_COR_1472_01, TP_COR_1416_01,
TP_COR_1416_02, TP_COR_1416_03, TP_COR_1416_04, TP_COR_1458_01, TP_COR_1448_01,
TP_COR_1444_01, TP_COR_1442_01, TP_COR_8579_01, TP_COR_8492_01, TP_COR_8493_01,
TP_COR_8232_01, TP_COR_8583_01, TP_COR_8387_01, TP_COR_8402_01, TP_COR_8586_01,
TP_COR_8210_01, TP_COR_8246_01, TP_COR_8160_01, TP_COR_8169_01, TP_COR_8168_01,
TP_COR_8805_01, TP_COR_8338_02, TP_COR_8338_03, TP_COR_8338_05, TP_COR_8338_06,
TP_COR_8108_01, TP_COR_1294_01, TP_COR_1245_01, TP_COR_1248_01, TP_COR_1299_01,
TP_COR_9027_01, TP_COR_1304_01, TP_COR_1306_01, TP_COR_1315_01, TP_COR_8578_01,
TP_COR_8560_01, TP_COR_8530_01, TP_COR_8125_01, TP_COR_8126_01, TP_COR_8128_01,
TP_COR_8243_01, TP_COR_8133_01, TP_COR_8379_01, TP_COR_8384_01, TP_COR_8382_01,
TP_COR_1435_01, TP_COR_8577_01, TP_COR_8435_01, TP_COR_8512_01, TP_COR_8516_01,
TP_COR_8235_01, TP_COR_8574_01, TP_COR_8326_01, TP_COR_8297_01, TP_COR_8188_01.
5.2 Not implemented TP

A number of 44 TP have not been implemented, as the dynamic behaviour that validates their test purpose is already implemented in one or more TC. Table 1 gives the relation between the non-implemented TP and the TC that cover(s) its purpose.

<table>
<thead>
<tr>
<th>TP not implemented</th>
<th>TC that covers the dynamic behaviour</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP_COR_8814_01</td>
<td>TC_COR_8813_01</td>
</tr>
<tr>
<td>TP_COR_1455_01</td>
<td>TC_COR_1085_01</td>
</tr>
<tr>
<td>TP_COR_8013_01</td>
<td>TC_COR_1225_01</td>
</tr>
<tr>
<td>TP_COR_1244_01</td>
<td>TC_COR_1235_01</td>
</tr>
<tr>
<td>TP_COR_1239_01</td>
<td>TC_COR_1210_02</td>
</tr>
<tr>
<td>TP_COR_8148_01</td>
<td>TC_COR_1280_01</td>
</tr>
<tr>
<td>TP_COR_1257_01</td>
<td>TC_COR_1280_01</td>
</tr>
<tr>
<td>TP_COR_1419_01</td>
<td>TC_COR_1417_01</td>
</tr>
<tr>
<td>TP_COR_1459_01</td>
<td>TC_COR_1468_01</td>
</tr>
<tr>
<td>TP_COR_1453_01</td>
<td>TC_COR_1085_01</td>
</tr>
<tr>
<td>TP_COR_1453_02</td>
<td>TC_COR_1011_01</td>
</tr>
<tr>
<td>TP_COR_1453_03</td>
<td>TC_COR_1020_01</td>
</tr>
<tr>
<td>TP_COR_1447_01</td>
<td>TC_COR_1058_01</td>
</tr>
<tr>
<td>TP_COR_1447_02</td>
<td>TC_COR_1058_02</td>
</tr>
<tr>
<td>TP_COR_8415_01</td>
<td>TC_COR_8146_01</td>
</tr>
<tr>
<td>TP_COR_8483_01</td>
<td>TC_COR_8482_01</td>
</tr>
<tr>
<td>TP_COR_8491_01</td>
<td>TC_COR_8464_01</td>
</tr>
<tr>
<td>TP_COR_8494_01</td>
<td>TC_COR_8146_01</td>
</tr>
<tr>
<td>TP_COR_8499_01</td>
<td>TC_COR_8147_01</td>
</tr>
<tr>
<td>TP_COR_8504_01</td>
<td>TC_COR_8434_01</td>
</tr>
<tr>
<td>TP_COR_8511_01</td>
<td>TC_COR_8434_01, TC_COR_8504_01</td>
</tr>
<tr>
<td>TP_COR_8366_01</td>
<td>TC_COR_8507_01</td>
</tr>
<tr>
<td>TP_COR_8565_01</td>
<td>TC_COR_8396_01</td>
</tr>
<tr>
<td>TP_COR_8162_01</td>
<td>TC_COR_8159_01, TC_COR_8179_01,</td>
</tr>
<tr>
<td></td>
<td>TC_COR_8180_01</td>
</tr>
<tr>
<td>TP_COR_8444_01</td>
<td>TC_COR_8179_01</td>
</tr>
<tr>
<td>TP_COR_8452_01</td>
<td>TC_COR_8159_01</td>
</tr>
<tr>
<td>TP_COR_8171_01</td>
<td>TC_COR_8461_01</td>
</tr>
<tr>
<td>TP_COR_8172_01</td>
<td>TC_COR_8470_01</td>
</tr>
<tr>
<td>TP_COR_8410_01</td>
<td>TC_COR_8567_01</td>
</tr>
<tr>
<td>TP_COR_8587_01</td>
<td>TC_COR_8592_01</td>
</tr>
<tr>
<td>TP_COR_8118_01</td>
<td>TC_COR_8513_01</td>
</tr>
<tr>
<td>TP_COR_8113_01</td>
<td>TC_COR_8146_01</td>
</tr>
<tr>
<td>TP_COR_8149_01</td>
<td>TC_COR_8146_01</td>
</tr>
<tr>
<td>TP_COR_1228_01</td>
<td>Several TC test the behaviour implicitly</td>
</tr>
<tr>
<td>TP_COR_1303_01</td>
<td>TC_COR_1298_01</td>
</tr>
<tr>
<td>TP_COR_8343_01</td>
<td>TC_COR_8349_01</td>
</tr>
<tr>
<td>TP_COR_1042_01</td>
<td>TC_COR_1443_01</td>
</tr>
<tr>
<td>TP_COR_8107_01</td>
<td>Several TC test the behaviour implicitly</td>
</tr>
<tr>
<td>TP_COR_1419_03</td>
<td>TC_COR_1417_02</td>
</tr>
<tr>
<td>TP_COR_8330_01</td>
<td>TC_COR_8586_01</td>
</tr>
<tr>
<td>TP_COR_8299_01</td>
<td>TC_COR_9034_01</td>
</tr>
<tr>
<td>TP_COR_8315_01</td>
<td>TC_COR_9034_02</td>
</tr>
<tr>
<td>TP_COR_8315_02</td>
<td>TC_COR_9034_01</td>
</tr>
<tr>
<td>TP_COR_8550_01</td>
<td>TC_COR_8183_01</td>
</tr>
</tbody>
</table>

6 ATS conventions

The complete description of the ATS conventions is found in TS 102 5141 [1].
7 PCTR conformance

A test laboratory, when requested by a client to produce a PCTR, is required, as specified in ISO/IEC 9646-5 [7], to produce a PCTR conformant with the PCTR template given in annex B of ISO/IEC 9646-5 [7].

Furthermore, a test laboratory, offering testing for the ATS specification contained in annex C, when requested by a client to produce a PCTR, is required to produce a PCTR conformant with the PCTR proforma contained in annex A.

A PCTR which conforms to this PCTR proforma specification shall preserve the content and ordering of the clauses contained in annex A. Clause A.6 of the PCTR may contain additional columns. If included, these shall be placed to the right of the existing columns. Text in italics may be retained by the test laboratory.

8 PIXIT conformance

A test realizer, producing an executable test suite for the Abstract Test Suite (ATS) specification contained in annex C, is required, as specified in ISO/IEC 9646-4 [6], to produce an augmented partial PIXIT proforma conformant with this partial PIXIT proforma specification.

An augmented partial PIXIT proforma which conforms to this partial PIXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The augmented partial PIXIT proforma may contain additional questions that need to be answered in order to prepare the Means Of Testing (MOT) for a particular Implementation Under Test (IUT).

A test laboratory, offering testing for the ATS specification contained in annex C, is required, as specified in ISO/IEC 9646-5 [7], to further augment the augmented partial PIXIT proforma to produce a PIXIT proforma conformant with this partial PIXIT proforma specification.

A PIXIT proforma which conforms to this partial PIXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The PIXIT proforma may contain additional questions that need to be answered in order to prepare the test laboratory for a particular IUT.

9 ATS Conformance

The test realizer, producing a Means Of Testing (MOT) and Executable Test Suite (ETS) for the present document, shall comply with the requirements of ISO/IEC 9646-4 [6]. In particular, these concern the realization of an Executable Test Suite (ETS) based on each ATS. The test realizer shall provide a statement of conformance of the MOT to the present document.

An ETS which conforms to the present document shall contain test groups and test cases which are technically equivalent to those contained in the ATS in annex C. All sequences of test events comprising an abstract test case shall be capable of being realized in the executable test case. Any further checking which the test system might be capable of performing is outside the scope of the present document and shall not contribute to the verdict assignment for each test case.

Test laboratories running conformance test services using this ATS shall comply with ISO/IEC 9646-5 [7].

A test laboratory which claims to conform to this ATS specification shall use an MOT which conforms to this ATS.
Annex A (normative):
Abstract Test Suite (ATS)

A.1 The ATS in TTCN-3 core (text) format

This ATS has been produced using the Testing and Test Control Notation (TTCN-3) according to ES 201 873-1 [10].

The TTCN-3 core (text) representation corresponding to this ATS is contained in several ASCII files contained in archive ts_102516v010201p0.zip which accompanies the present document.
Annex B (normative):
Partial PXIT proforma

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

The PXIT Proforma is based on ISO/IEC 9646-6 [8]. Any needed additional information can be found in there.

## B.1 Identification summary

### Table B.1

<table>
<thead>
<tr>
<th>PIXIT Number:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Laboratory Name:</td>
<td></td>
</tr>
<tr>
<td>Date of Issue:</td>
<td></td>
</tr>
<tr>
<td>Issued to:</td>
<td></td>
</tr>
</tbody>
</table>

## B.2 ATS summary

### Table B.2

<table>
<thead>
<tr>
<th>Protocol Specification:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Protocol to be tested:</td>
<td></td>
</tr>
<tr>
<td>ATS Specification:</td>
<td></td>
</tr>
<tr>
<td>Abstract Test Method:</td>
<td></td>
</tr>
</tbody>
</table>

## B.3 Test laboratory

### Table B.3

<table>
<thead>
<tr>
<th>Test Laboratory Identification:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Laboratory Manager:</td>
<td></td>
</tr>
<tr>
<td>Means of Testing:</td>
<td></td>
</tr>
<tr>
<td>SAP Address:</td>
<td></td>
</tr>
</tbody>
</table>
B.4 Client identification

Table B.4

<table>
<thead>
<tr>
<th>Client Identification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Test manager:</td>
</tr>
<tr>
<td>Test Facilities required:</td>
</tr>
</tbody>
</table>

B.5 SUT

Table B.5

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version:</td>
</tr>
<tr>
<td>SCS Number:</td>
</tr>
<tr>
<td>Machine configuration:</td>
</tr>
<tr>
<td>Operating System Identification:</td>
</tr>
<tr>
<td>IUT Identification:</td>
</tr>
<tr>
<td>PICS Reference for IUT:</td>
</tr>
<tr>
<td>Limitations of the SUT:</td>
</tr>
<tr>
<td>Environmental Conditions:</td>
</tr>
</tbody>
</table>

B.6 Protocol layer information

B.6.1 Protocol identification

Table B.6

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version:</td>
</tr>
<tr>
<td>PICS References:</td>
</tr>
</tbody>
</table>
### B.6.2 Generic Setup

**Table B.7: Generic Setup**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Comments</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX_IUT_ROLE</td>
<td>Router/Host</td>
<td>Is the IUT a router or a host?</td>
<td></td>
</tr>
<tr>
<td>PX_TEST_CAMPAIGN</td>
<td>CampaignType</td>
<td>Selects only TCs that can be run in a campaign.</td>
<td></td>
</tr>
<tr>
<td>PX_CONFIGURATION_ID</td>
<td>ConfigId</td>
<td>The id of the current configuration/topology.</td>
<td></td>
</tr>
<tr>
<td>PX_UTS_AVAILABLE</td>
<td>BOOLEAN</td>
<td>Specifies if Upper Tester Server is available or not.</td>
<td></td>
</tr>
</tbody>
</table>

### B.6.3 Default Values

**Table B.8: Default Values**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Comments</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX_DAD_DUP_ADDR_DETECT_TRANSMITS_IUT</td>
<td>Integer</td>
<td>Number of DAD packet retransmissions</td>
<td></td>
</tr>
<tr>
<td>PX_MAX_UNICAST_SOLICIT_IUT</td>
<td>Integer</td>
<td>Number of NUD Neighbor Solicitation retransmissions</td>
<td></td>
</tr>
<tr>
<td>PX_MAX_MULTICAST_SOLICIT_IUT</td>
<td>Integer</td>
<td>Number of AR Neighbor Solicitation retransmissions</td>
<td></td>
</tr>
</tbody>
</table>

### B.6.4 Unknown IDs

**Table B.9: Unknown IDs**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Comments</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX_UNRECOGNIZED_EXT_HEADER_ID</td>
<td>Integer</td>
<td>Id of an IPv6 extension header that the IUT does not recognize.</td>
<td></td>
</tr>
<tr>
<td>PX_NEXT_HEADER_STOPS_PACKET_PROCESSING</td>
<td>Integer</td>
<td>Id of an IPv6 extension header that stops packet processing.</td>
<td></td>
</tr>
<tr>
<td>PX_UNRECOGNIZED_ROUTING_TYPE</td>
<td>Integer</td>
<td>Id of a routing type that the IUT does not recognize.</td>
<td></td>
</tr>
<tr>
<td>PX_UNKNOWN_ICMP_MESSAGE_TYPE</td>
<td>Integer</td>
<td>An ICMPv6 message type that is greater than 129 and unknown to the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_UNKNOWN_NBRADV_OPT_ID</td>
<td>Integer</td>
<td>A Neighbor Advertisement option id that is unknown to the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_UNKNOWN_NBRSOL_OPT_ID</td>
<td>Integer</td>
<td>A Neighbor Solicitation option id that is unknown to the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_UNKNOWN_RTRSOLOPT_ID</td>
<td>Integer</td>
<td>A Router Solicitation option id that is unknown to the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_UNKNOWN_REDIRECT_OPT_ID</td>
<td>Integer</td>
<td>A Redirect option id that is unknown to the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_SKIP_OVER_HOP_BY_HOP_OPTION</td>
<td>Integer</td>
<td>A hop by hop option id that is unknown to the implementation (&quot;skip over&quot; type).</td>
<td></td>
</tr>
<tr>
<td>PX_SKIP_OVER_DESTINATION_OPTION</td>
<td>Integer</td>
<td>A destination option id that is unknown to the implementation (&quot;skip over&quot; type).</td>
<td></td>
</tr>
<tr>
<td>PX_DISCARD_PACKET_HOP_BY_HOP_OPTION</td>
<td>Integer</td>
<td>A hop by hop option id that is unknown to the implementation (&quot;discard&quot; type).</td>
<td></td>
</tr>
<tr>
<td>PX_DISCARD_PACKET_DESTINATION_OPTION</td>
<td>Integer</td>
<td>A destination option id that is unknown to the implementation (&quot;discard&quot; type).</td>
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<tr>
<td>PX_DISCARD_PACKET_HOP_BY_HOP_OPTION_TYPE_10</td>
<td>Integer</td>
<td>A destination option id that is unknown to the implementation (&quot;discard, and always send ICMP Parameter Problem message&quot; type).</td>
<td></td>
</tr>
<tr>
<td>PX_DISCARD_PACKET_DESTINATION_OPTION_TYPE_10</td>
<td>Integer</td>
<td>A destination option id that is unknown to the implementation (&quot;discard, and always send ICMP Parameter Problem message&quot; type).</td>
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</tbody>
</table>
### B.6.5 Mac Layer

#### Table B.10: Mac Layer

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Comments</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>PX_MAC_LAYER</td>
<td>e_atm, e_eth</td>
<td>Transport layer is ATM or Ethernet?</td>
<td></td>
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<tr>
<td>PX_NET_DEVICE_ID_1</td>
<td>string</td>
<td>Name of the primary TS interface.</td>
<td></td>
</tr>
<tr>
<td>PX_NET_DEVICE_ID_2</td>
<td>string</td>
<td>Name of the secondary TS interface.</td>
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<tr>
<td>PX_MAC_OPTION_LEN</td>
<td>Integer</td>
<td>Length of Source Link-Layer and Target Link-Layer options.</td>
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</tbody>
</table>

### B.6.6 Addresses

#### B.6.6.1 Prefixes

#### Table B.11: Prefixes

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Comments</th>
<th>Value</th>
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<tbody>
<tr>
<td>PX_NET_A_PREFIX</td>
<td>IPv6 Address</td>
<td>Prefix used for NET A.</td>
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</tr>
<tr>
<td>PX_NET_B_PREFIX</td>
<td>IPv6 Address</td>
<td>Prefix used for NET B.</td>
<td></td>
</tr>
<tr>
<td>PX_NET_C_PREFIX</td>
<td>IPv6 Address</td>
<td>Prefix used for NET C.</td>
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</tr>
<tr>
<td>PX_PREFIX_LENGTH</td>
<td>Integer</td>
<td>Number of bits used for prefix part of IPv6 addresses.</td>
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</tbody>
</table>

#### B.6.6.2 IUT Addresses

#### Table B.12: IUT Addresses

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Comments</th>
<th>Value</th>
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<tbody>
<tr>
<td>PX_MAC_UCA_IUT_1</td>
<td>MAC Address</td>
<td>Unicast MAC Address of IUT's primary interface</td>
<td></td>
</tr>
<tr>
<td>PX_MAC_UCA_IUT_2</td>
<td>MAC Address</td>
<td>Unicast MAC Address of IUT's secondary interface</td>
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### Table B.13: IUT Addresses - Other

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<th>Type</th>
<th>Comments</th>
<th>Value</th>
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<tr>
<td>PX_MAC_BROADCAST_IUT</td>
<td>MAC Address</td>
<td>Mac Broadcast Address of Implementation Under Test.</td>
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<tr>
<td>PX_ANYCAST_IUT</td>
<td>IPv6 Address</td>
<td>Anycast Address that is known to the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_ANYCAST_NOT_IUT</td>
<td>IPv6 Address</td>
<td>Anycast Address that is not known to the implementation.</td>
<td></td>
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<tr>
<td>PX_MAC_ANYCAST_IUT</td>
<td>MAC Address</td>
<td>Mac Anycast Address of Router Under Test.</td>
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<tr>
<td>PX_MAC_SOL_ANYPACT_NOT_IUT</td>
<td>MAC Address</td>
<td>Mac Anycast Address of Test Node.</td>
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<tr>
<td>PX_UNICAST_NOT_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address that is not of the implementation.</td>
<td></td>
</tr>
<tr>
<td>PX_UNICAST_PROXY_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address for which the NUT proxies.</td>
<td></td>
</tr>
<tr>
<td>PX_UNICAST_UNREACHABLE_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address to which the IUT cannot deliver packets due to reasons other than congestion.</td>
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<tr>
<td>PX_UNICAST_UNREACHABLE_NO_ENTRY_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address to which the IUT cannot deliver packets due to lack of entry in routing table.</td>
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<tr>
<td>PX_UNICAST_UNREACHABLE_ADMINISTRATIVE_PROHIBITION_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address to which the IUT cannot deliver packets due to administrative prohibition.</td>
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<tr>
<td>PX_UNICAST_UNREACHABLE_OTHER_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address to which the IUT cannot deliver packets due to other reason.</td>
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<td>PX_UNICAST_UNREACHABLE_NO_UPPER_LAYER_PEER_IUT</td>
<td>IPv6 Address</td>
<td>Unicast Address to which the IUT cannot deliver packets due to lack of upper layer peer.</td>
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<tr>
<td>PX_UNICAST_PROXY_SOLNODE_IUT</td>
<td>IPv6 Address</td>
<td>Solicited Node Multicast Address of PX_UNICAST_PROXY_IUT.</td>
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### B.6.6.3 Tester Addresses

#### B.6.6.3.1 Host 1 (HS_01)

Table B.14: Addresses HS_01

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<th>Value</th>
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</thead>
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<td>PX_MAC_UCA_HS01</td>
<td>MAC Address</td>
<td>First unicast MAC Address</td>
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<td>PX_MAC_UCA_HS01_2</td>
<td>MAC Address</td>
<td>Second unicast MAC Address</td>
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</table>

#### B.6.6.3.2 Host 2 (HS_02)

Table B.15: Addresses HS_02

<table>
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<tr>
<td>PX_MAC_UCA_HS02</td>
<td>MAC Address</td>
<td>Unicast MAC Address</td>
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#### B.6.6.3.3 Host 3 (HS_03)

Table B.16: Addresses HS_03

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<th>Name</th>
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<th>Value</th>
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</thead>
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<tr>
<td>PX_MAC_UCA_HS03</td>
<td>MAC Address</td>
<td>Unicast MAC Address</td>
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</table>
B.6.6.3.4 Router 1 (RT_01)

Table B.17: Addresses RT_01

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<th>Name</th>
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<th>Comments</th>
<th>Value</th>
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<td>PX_MAC_UCA_RT01_A</td>
<td>MAC Address</td>
<td>Unicast MAC Address Net A</td>
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</table>

B.6.6.3.5 Router 3 (RT_03)

Table B.18: Addresses RT_03

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<th>Name</th>
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<th>Comments</th>
<th>Value</th>
</tr>
</thead>
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<td>PX_MAC_UCA_RT03_A</td>
<td>MAC Address</td>
<td>Unicast MAC Address Net A</td>
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</table>

B.6.7 Timer

Table B.19: Timer

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<th>Value</th>
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<tr>
<td>PX_TIMER_PRECISION</td>
<td>Float</td>
<td>Precision of timers in percentage (default is 5 percent)</td>
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</tr>
<tr>
<td>PX_REACHABLE_TIME</td>
<td>Integer</td>
<td>The value to be placed in the Reachable Time field in the Router Advertisement messages sent by the router.</td>
<td></td>
</tr>
<tr>
<td>PX_ADVERTISEMENT_RETRANS_TIMER</td>
<td>Integer</td>
<td>The value to be placed in the Retrans Timer field in the Router Advertisement messages sent by the router.</td>
<td></td>
</tr>
<tr>
<td>PX_MAX_RTR_ADV_INTERVAL</td>
<td>Float</td>
<td>The maximum time allowed between sending unsolicited multicast Router Advertisements from the interface, in seconds.</td>
<td></td>
</tr>
<tr>
<td>PX_MIN_RTR_ADV_INTERVAL</td>
<td>Float</td>
<td>The minimum time allowed between sending unsolicited multicast Router Advertisements from the interface, in seconds.</td>
<td></td>
</tr>
<tr>
<td>PX_ICMP_ERROR_MESSAGE_RATE_LIMIT</td>
<td>Float</td>
<td>The minimum time allowed between sending ICMPv6 error messages, in seconds.</td>
<td></td>
</tr>
<tr>
<td>PX_TDONE</td>
<td>Float</td>
<td>Time to control PTC.stop.</td>
<td></td>
</tr>
<tr>
<td>PX_TAC</td>
<td>Float</td>
<td>Time to control the reception of a message.</td>
<td></td>
</tr>
<tr>
<td>PX_TNOAC</td>
<td>Float</td>
<td>Time to control that IUT sends nothing.</td>
<td></td>
</tr>
<tr>
<td>PX_TWAIT</td>
<td>Float</td>
<td>Time to control that IUT reacts prior to Upper Tester action.</td>
<td></td>
</tr>
<tr>
<td>PX_TSYNC_TIME_LIMIT</td>
<td>Float</td>
<td>Default time limit for a sync client to reach a synchronization point.</td>
<td></td>
</tr>
<tr>
<td>PX_TSHUT_DOWN_TIME_LIMIT</td>
<td>Float</td>
<td>Default time limit for a sync client to finish its execution of the shutdown default.</td>
<td></td>
</tr>
<tr>
<td>PX_T_BUILD_GLA</td>
<td>Integer</td>
<td>What time does the IUT need to build its global address?</td>
<td></td>
</tr>
</tbody>
</table>
Annex C (normative): PCTR proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the 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 [8]. Any needed additional information can be found in there.

C.1 Identification summary

C.1.1 Protocol conformance test report

Table C.1

<table>
<thead>
<tr>
<th>PCTR Number:</th>
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<tbody>
<tr>
<td>PCTR Date:</td>
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</tr>
<tr>
<td>Corresponding SCTR Number:</td>
<td></td>
</tr>
<tr>
<td>Corresponding SCTR Date:</td>
<td></td>
</tr>
<tr>
<td>Test Laboratory Identification:</td>
<td></td>
</tr>
<tr>
<td>Test Laboratory Manager:</td>
<td></td>
</tr>
<tr>
<td>Signature:</td>
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</tbody>
</table>

C.1.2 IUT identification

Table C.2

<table>
<thead>
<tr>
<th>Name:</th>
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</thead>
<tbody>
<tr>
<td>Version:</td>
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<tr>
<td>Protocol specification:</td>
<td></td>
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<tr>
<td>PICS:</td>
<td></td>
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<tr>
<td>Previous PCTR if any:</td>
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</tbody>
</table>
C.1.3 Testing environment

Table C.3

<table>
<thead>
<tr>
<th>PIXIT Number:</th>
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</thead>
<tbody>
<tr>
<td>ATS Specification:</td>
<td></td>
</tr>
<tr>
<td>Abstract Test Method:</td>
<td></td>
</tr>
<tr>
<td>Means of Testing identification:</td>
<td></td>
</tr>
<tr>
<td>Date of testing:</td>
<td></td>
</tr>
<tr>
<td>Conformance Log reference(s):</td>
<td></td>
</tr>
<tr>
<td>Retention Date for Log reference(s):</td>
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</tr>
</tbody>
</table>

C.1.4 Limits and reservation

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

C.1.5 Comments

Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.
C.2 IUT Conformance status

This IUT has or has not been shown by conformance assessment to be non conforming to the specified protocol specification.

Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements (as specified in clause C.3) and there are no "FAIL" verdicts to be recorded (in clause C.6) strike the words "has or", otherwise strike the words "or has not".

C.3 Static conformance summary

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

Strike the appropriate words in this sentence.

C.4 Dynamic conformance summary

The test campaign did or did not reveal errors in the IUT.

Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause C.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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C.5 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.6 Test campaign report

### Table C.4

<table>
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<tr>
<th>ATS Reference</th>
<th>Selected?</th>
<th>Run?</th>
<th>Verdict</th>
<th>Observations</th>
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</thead>
<tbody>
<tr>
<td>1. Node tests (NT)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1.1 Generate IPv6 packets (GIP)</td>
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<td></td>
</tr>
<tr>
<td>TC_COR_1000_01</td>
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<tr>
<td>1.1.2 Generate IPv6 Header (GIH)</td>
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<tr>
<td>TC_COR_1806_01</td>
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<tr>
<td>1.1.3 Discover PMTU (DPMTU)</td>
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<tr>
<td>TC_COR_1821_01</td>
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<td>TC_COR_1823_01</td>
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<tr>
<td>1.2 Process IPv6 packets (PIP)</td>
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<tr>
<td>1.2.1 Process Extension Headers (PEH)</td>
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<td>TC_COR_1010_01</td>
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<td>TC_COR_1011_01</td>
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### 1.6.7 Generate Neighbor Discovery Messages (GNDM)
- **1.6.7.1 Generate Neighbor Solicitation (GNS)**
  - TC_COR_8454_01
  - TC_COR_8150_01
  - TC_COR_8156_01
- **1.6.7.1.1 Generate Neighbor Solicitation Header (GNSH)**
- **1.6.7.1.2 Generate Neighbor Solicitation Option (GNSO)**
- **1.6.7.1.3 Generate NS for Address Resolution (GNSAR)**

### 1.6.7.2 Generate Neighbor Advertisement (GNA)
- **1.6.7.2.2 Form Neighbor Advertisement Header (FNAH)**

### 1.8 Jumbograms (JG)
- **1.8.3 Process Jumbograms (PJG)**

### 2.3 Initialize (INI)
- **2.3.2 Configure Address (CA)**
  - **2.3.2.6 Assign Global Address (GA)**
    - **2.3.2.6.1 Use of M-bit (UMB)**
    - **2.3.2.6.3 Process the Prefix Information Option (PFX)**
      - TC_COR_1298_01
      - TC_COR_1305_01
      - TC_COR_1307_01
      - TC_COR_1309_01
      - TC_COR_1310_01
- **2.6 Neighbour Discovery (ND)**
  - **2.6.6 Process Neighbor Discovery Messages (PND)**
    - **2.6.6.1.4 Process NS for Address Resolution (PNSAR)**
      - TC_COR_8446_01
  - **2.6.6.3.3 Host Processing of RS (HPRS)**
  - **2.6.6.4.1 Discover Neighbor by RA (DNRA)**
  - **2.6.6.4.3 Host Processing of RA (HPRA)**

### 2. Host (HS)

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### 3. Router (RT)

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### C.7 Void

### C.8 Observations

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

IETF RFC 2374: "An IPv6 Aggregatable Global Unicast Address Format".
IETF RFC 2461: "Neighbor Discovery for IP Version 6 (IPv6)".
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IETF RFC 2463: "Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification".
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IETF RFC 2711: "IPv6 Router Alert Option".
IETF RFC 2894: "Router Renumbering for IPv6".
IETF RFC 3484: "Default Address Selection for Internet Protocol version 6 (IPv6)".
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