Intelligent Transport Systems (ITS); Testing; Conformance test specifications for ITS PKI management; Part 1: Protocol Implementation Conformance Statement (PICS)
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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Intelligent Transport Systems (ITS).

The present document is part 1 of a multi-part deliverable covering Conformance test specifications for ITS PKI management, as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS)"
- Part 2: "Test Suite Structure and Test Purposes (TSS & TP)"
- Part 3: "Abstract Test Suite (ATS) and Protocol 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 the Protocol Implementation Conformance Statement (PICS) pro forma for the test specifications for security algorithms as specified in ETSI TS 102 941 [1] and in accordance with the relevant guidance given in ISO/IEC 9646-7 [i.2] and ETSI ETS 300 406 [i.3].

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 at https://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.

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


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] ISO/IEC 9646-1: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts”.

[i.2] ISO/IEC 9646-7: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements”.

[i.3] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
3 Definition of terms, symbols and abbreviations

3.1 Terms
For the purposes of the present document, the terms given in ETSI TS 102 941 [1] and ISO/IEC 9646-1 [i.1] apply.

3.2 Symbols
Void.

3.3 Abbreviations
For the purposes of the present document, the abbreviations given in ETSI TS 103 097 [2] and the following apply:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRL</td>
<td>Certificate Revocation List</td>
</tr>
<tr>
<td>PDU</td>
<td>Protocol Data Unit</td>
</tr>
<tr>
<td>PICS</td>
<td>Protocol Implementation Conformance Statement</td>
</tr>
</tbody>
</table>

4 Conformance

A PICS pro forma which conforms to this PICS pro forma specification shall be technically equivalent to annex A of the present document and shall preserve the numbering and ordering of the items in annex A.

A PICS which conforms to the present document shall:

a) describe an implementation which claims to conform to ETSI TS 102 941 [1];

b) be a conforming PICS pro forma which has been completed in accordance with the instructions for completion given in clause A.2;

c) include the information necessary to uniquely identify both the supplier and the implementation.
Annex A (normative): Security PICS pro forma

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

A.2 Guidance for completing the PICS pro forma

A.2.1 Purposes and structure

The purpose of the present document is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardized manner.

The PICS pro forma is subdivided into clauses for the following categories of information:

- instructions for completing the PICS pro forma;
- identification of the implementation;
- identification of the protocol;
- PICS pro forma tables (for example: major capabilities, etc.).

A.2.2 Abbreviations and conventions

This annex does not reflect dynamic conformance requirements but static ones. In particular, a condition for support of a PDU parameter does not reflect requirements about the syntax of the PDU (i.e. the presence of a parameter) but the capability of the implementation to support the parameter.

In the sending direction, the support of a parameter means that the implementation is able to send this parameter (but it does not mean that the implementation always sends it).

In the receiving direction, it means that the implementation supports the whole semantic of the parameter that is described in the main part of the present document.

The PICS pro forma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [i.2].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

Status column

The status column describes the status of the item. The various status used in this annex are in accordance with the rules described in IEEE 1609.2 [3] annex A. Predicate in conditional and optional items is of form of Reference to items, as described below.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [i.2], are used for the support column:

- **Y or y** supported by the implementation
- **N or n** not supported by the implementation
- **N/A, n/a or -** no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status)

References to items

For each possible item answer (answer in the support column) within the PICS pro forma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a dot character ".", followed by the item number in the table.

**EXAMPLE:** A.5.2.1 is the reference to the answer of item 2.1 in table A.5.

A.2.3 Instructions for completing the PICS pro forma

The supplier of the implementation may complete the PICS pro forma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the PICS pro forma.

---

A.3 Identification of the Equipment

A.3.1 Introduction

Identification of the Equipment shall be filled in so as to provide as much details as possible regarding version numbers and configuration options.

Both the product supplier information and client information shall be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS shall be named as the contact person.

A.3.2 Date of the statement

--------------------------------------------------------------------------------------------------

A.3.3 Equipment Under Test identification

Name:

--------------------------------------------------------------------------------------------------
Hardware configuration:

..........................................................................................................................................................................................
..........................................................................................................................................................................................
..........................................................................................................................................................................................

Software configuration:

..........................................................................................................................................................................................
..........................................................................................................................................................................................
..........................................................................................................................................................................................

A.3.4 Product supplier

Name:

..........................................................................................................................................................................................

Address:

..........................................................................................................................................................................................
..........................................................................................................................................................................................
..........................................................................................................................................................................................

Telephone number:

..........................................................................................................................................................................................

Facsimile number:

..........................................................................................................................................................................................

E-mail address:

..........................................................................................................................................................................................

Additional information:

..........................................................................................................................................................................................
..........................................................................................................................................................................................
..........................................................................................................................................................................................

A.3.5 Client

Name:

..........................................................................................................................................................................................

Address:

..........................................................................................................................................................................................
..........................................................................................................................................................................................
..........................................................................................................................................................................................
A.3.6 PICS contact person

Name: ..........................................................................................................................................................................................

Telephone number: ..............................................................................................................................................................................

Facsimile number: ..................................................................................................................................................................................

E-mail address: ........................................................................................................................................................................................

Additional information: ............................................................................................................................................................................

A.4 Identification of the protocol

The present document applies to the following specification: ETSI TS 103 097 [2].

A.5 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No) .................

NOTE: Answering "No" to this question indicates non-conformance to the ITS Security standard specification ETSI TS 103 097 [2]. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS pro forma.
## A.6 PICS pro forma tables

Unless stated otherwise, the column references of all tables below indicate the clause numbers of ETSI TS 102 941 [1].

The various status used in this annex are in accordance with the rules described in IEEE 1609.2 [3] annex A.

### Table A.1: Security containers and algorithms

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Secure PDU (SPDU) support</td>
<td>6.2 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Support SPDU signing</td>
<td>6.2, S1.2.2 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>… with hash algorithm SHA-256</td>
<td>S1.2.2.1.1 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>… with hash algorithm SHA-384</td>
<td>S1.2.2.1.2 [3]</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>2.3</td>
<td>… with ECDSA-256 NIST p256</td>
<td>S1.2.2.1.1 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>2.4</td>
<td>… with ECDSA-256 Brainpool p256</td>
<td>S1.2.2.1.2 [3]</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>… with ECDSA-384 Brainpool p384</td>
<td>S1.3.2.4.2 [3]</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Support SPDU signature verification</td>
<td>6.2, S1.3.2 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>… with hash algorithm SHA-256</td>
<td>S1.3.2.1.1 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>3.2</td>
<td>… with hash algorithm SHA-384</td>
<td>S1.3.2.1.2 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>… with ECDSA-256 NIST p256</td>
<td>S1.3.2.1.1 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>3.4</td>
<td>… with ECDSA-256 Brainpool p256</td>
<td>S1.3.2.1.2 [3]</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>3.5</td>
<td>… with ECDSA-384 Brainpool p384</td>
<td>S1.3.2.1.2 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Support public-key encryption</td>
<td>6.2, S1.2.3 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>… using ECIES-256 with NIST p256</td>
<td>S1.2.3.4.1.1 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>4.2</td>
<td>… using ECIES-256 with Brainpool p256</td>
<td>S1.2.3.4.1.2 [3]</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Support public-key decryption</td>
<td>S1.3.3 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>… using ECIES-256 with NIST p256</td>
<td>S1.3.3.1.1 [3]</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>… using ECIES-256 with Brainpool p256</td>
<td>S1.3.3.1.2 [3]</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

### Table A.2: ITS-S testing

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT is ITS-S</td>
<td>C1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT supports enrolment procedure</td>
<td>6.2.3.2</td>
<td>A.3.1:O</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>IUT supports re-enrolment procedure</td>
<td>6.2.3.2</td>
<td>A.3.2:O</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>IUT supports the enrolment repetition mechanism</td>
<td>5.1 [4]</td>
<td>A.3.2:O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IUT supports authorization procedure</td>
<td>6.2.3.3</td>
<td>A.3.1:M</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>IUT does not require privacy in authorization requests</td>
<td>6.2.3.3</td>
<td>A.3.3:O</td>
<td></td>
</tr>
<tr>
<td>3.2</td>
<td>IUT does not use prove of possession for authorization requests</td>
<td>6.2.3.3</td>
<td>A.3.3:O</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>IUT supports the authorization repetition mechanism</td>
<td>5.2 [4]</td>
<td>A.3.3:O</td>
<td></td>
</tr>
</tbody>
</table>

### Table A.3: PKI testing

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT is a PKI</td>
<td>4</td>
<td>C1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT supports EA behaviour</td>
<td>4</td>
<td>A.4.1:O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IUT supports AA behaviour</td>
<td>4</td>
<td>A.4.1:O</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>IUT supports RCA behaviour</td>
<td>4</td>
<td>A.4.1:O</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>IUT supports DC behaviour</td>
<td>4</td>
<td>A.4.1:O</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>IUT supports TLM behaviour</td>
<td>4</td>
<td>A.4.1:O</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>IUT supports CPOC behaviour</td>
<td>4</td>
<td>A.4.1:O</td>
<td></td>
</tr>
</tbody>
</table>
### Table A.4: EA testing

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT supports ITS-S enrolment</td>
<td>6.2.3.3</td>
<td>A.4.2.M</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT supports ITS-S re-enrolment</td>
<td>6.2.3.3</td>
<td>A.4.2.O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IUT supports authorization handling</td>
<td>6.2.3.4</td>
<td>A.4.2.O</td>
<td></td>
</tr>
</tbody>
</table>

### Table A.5: AA testing

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT supports ITS-S authorization</td>
<td>6.2.3.3</td>
<td>A.4.3.M</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT supports authorization requests without prove of possession</td>
<td>6.2.3.3</td>
<td>A.6.1.O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IUT supports authorization request without privacy</td>
<td>6.2.3.3</td>
<td>A.6.1.O</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>IUT supports authorization validation request</td>
<td>6.2.3.4</td>
<td>A.4.3.O</td>
<td></td>
</tr>
</tbody>
</table>

### Table A.6: RCA/DC testing

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT supports CRL generation</td>
<td>6.3.3</td>
<td>A.4.4.M</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT supports CTL generation</td>
<td>6.3.2</td>
<td>A.4.4.O</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>IUT supports Delta CTL generation</td>
<td>6.3.2</td>
<td>A.7.2.O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IUT supports CRL distribution</td>
<td>6.3.3</td>
<td>A.4.5.M</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>IUT supports CTL distribution</td>
<td>6.3.2</td>
<td>A.4.5.O</td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>IUT supports Delta CTL distribution</td>
<td>6.3.2</td>
<td>A.4.5.O</td>
<td></td>
</tr>
</tbody>
</table>

### Table A.7: TLM/CPOC testing

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT supports ECTL generation</td>
<td>6.3.1</td>
<td>A.4.6.M</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>IUT supports Delta ECTL generation</td>
<td>6.3.1</td>
<td>A.8.1.M</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT supports ECTL distribution</td>
<td>6.3.1</td>
<td>A.4.7.M</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>IUT supports Delta ECTL distribution</td>
<td>6.3.1</td>
<td>A.4.7.M</td>
<td></td>
</tr>
</tbody>
</table>

### Table A.8: CRL/CTL Handling

<table>
<thead>
<tr>
<th>Item</th>
<th>Is the IUT implemented to support:</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IUT is able to handle ECTL information</td>
<td>6.3.6</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>IUT is able to handle Delta ECTL information</td>
<td>6.3.6</td>
<td>A.9.1.O</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IUT is able to download ECTL</td>
<td>6.3.1</td>
<td>A.9.1.O</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IUT is able to handle Root CTL information</td>
<td>6.3.1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>IUT is able to handle Delta Root CTL information</td>
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**ETSI**
## History

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