



**Intelligent Transport Systems (ITS);
Testing;
Conformance test specifications for ITS Security;
Part 1: Protocol Implementation Conformance
Statement (PICS)**

ETSI TS 103 096-1 V1.5.1 (2022-01)

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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 Security, 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).

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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 103 097 [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.

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

- [1] ETSI TS 103 097 (V1.4.1): "Intelligent Transport Systems (ITS); Security; Security header and certificate formats".
- [2] IEEE Std 1609.2™-2016: "IEEE Standard for Wireless Access in Vehicular Environments - Security Services for Applications and Management Messages", as amended by IEEE Std 1609.2a™-2017: "IEEE Standard for Wireless Access In Vehicular Environments - Security Services for Applications and Management Messages - Amendment 1".

2.2 Informative references

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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 103 097 [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 [1] and the following apply:

CRL	Certificate Revocation List
GN-MGMT	GeoNetworking Management message
P2PCD	Peer-to-Peer Certificate Distribution
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement

4 Conformance

- a) A PICS pro forma which conforms to this PICS pro forma specification shall be technically equivalent to annex A of the IEEE Std 1609.2 [2] with the amendments of annex A of the present document and shall preserve the numbering and ordering of the items in annex A.
- b) The following clauses of the IEEE Std 1609.2 [2] are irrelevant for conformance with ETSI TS 103 097 [1] and may be skipped:
 - A.2.3.2 Certificate Revocation List (CRL) verification entity;
 - A.2.3.3 Peer-to-Peer Certificate Distribution (P2PCD) functionality (S3.1, S3.2, S3.3, S3.4).

A PICS which conforms to the present document shall:

- a) describe an implementation which claims to conform to ETSI TS 103 097 [1] and IEEE Std 1609.2 [2];
- b) be based on 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.