



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

Reference

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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

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 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.

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?".

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 Std 1609.2 [2], annex A.

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)
number value	supported number or amount of items

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 solidus character "/", followed by the item number in the table.

EXAMPLE: A.5/2 is the reference to the answer of item 2 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:

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

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3.6 PICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.4 Identification of the protocol

This PICS pro forma applies to the following standard: ETSI TS 103 097 [1]: "Intelligent Transport Systems (ITS); Security; Security header and certificate formats".

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 [1]. 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 IEEE 1609.2 PICS pro forma

This presents a list of the security functionality that an implementation may claim to support.

The reference column of the following table indicates reference to IEEE Std 1609.2 [2] unless otherwise stated.

Item	Security configuration (top-level)	Reference	Status	Support
S1.	Support secure data service		O1	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.1.	Secure Data Exchange Entity (SDEE) identification	4.2.2.1	S1:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.1.1.	Support only one SDEE	4.2.2.1	S1.1:C1	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.1.2.	Distinguish between SDEEs	4.2.2.1	S1.1:C1	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.	Generate Secured Protocol Data Unit (SPDU)		S1:O2	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.1.	Create Ieee1609Dot2Data containing unsecured data	4.2.2.2.2	S1.2:O3	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.	Create Ieee1609Dot2Data containing valid SignedData	4.2.2.2.3, 5.2, 5.3.1, 5.3.3, 5.3.7, 6.3.4, 6.3.9, 9.3.9.1	S1.2:O3	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.1.	Using a valid HashAlgorithm	6.3.5	S1.2.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.1.1.	Support signing with hash algorithm SHA-256	6.3.5	S1.2.2:O3a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.1.2.	Support signing with hash algorithm SHA-384	6.3.5	S1.2.2:O3a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.1.3.	Support signing with other hash algorithm	6.3.5	S1.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.	Containing a Signed Data payload	6.3.6	S1.2.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.1.	... with payload containing data	6.3.7	S1.2.2.2:O4	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.2.	... with payload containing extDataHash	6.3.7	S1.2.2.2: O4	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.3.	... with generationTime in the security headers	6.3.9, 6.3.11	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.4.	... with expiryTime in the security headers	6.3.9, 6.3.11	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.5.	... with generationLocation in the security headers	6.3.9, 6.3.12	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.6.	... with p2pcdLearningRequest in the security headers	6.3.9, 6.3.27	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.7.	... with missingCrIIdentifier in the security headers	6.3.9, 6.3.16	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.8.	... with encryptionKey in the security headers	6.3.9, 6.3.18	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.8.1.	... .. with a PublicEncryptionKey	6.3.9, 6.3.18, 6.3.19	S1.2.2.2.8:O5	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.8.2.	... .. with a SymmetricEncryptionKey	6.3.9, 6.3.18, 6.3.20	S1.2.2.2.8:O5	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.2.9.	... with pduFunctionalType in the security headers	6.3.9, 6.3.25	S1.2.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.3.	Support a SignerIdentifier	6.3.26	S1.2.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.3.1.	... of type digest	6.3.28	S1.2.2.3:O6	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.3.2.	... of type certificate	6.4.2	S1.2.2.3:O6	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.3.2.1.	... .. maximum number of certificates included in the SignerIdentifier	6.3.26	S1.2.2.3.2 1:M > 1:O	Enter number: ()
S1.2.2.4.	Support a Signature	6.3.30	S1.2.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.1.	... an ecdsa256Signature	6.3.31	S1.2.2.4:O6a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.1.1.	... .. using NIST p256	6.3.31	S1.2.2.4.1:O7	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.1.2.	... .. using Brainpool p256r1	6.3.31	S1.2.2.4.1:O7	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.1.3.	... .. with a x-only r value	6.3.23	S1.2.2.4.1:O8	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.1.4.	... .. with a compressed r value	6.3.23	S1.2.2.4.1:O8	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.1.5.	... .. with an uncompressed r value	6.3.23	S1.2.2.4.1:O8	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.2.	... an ecdsa384Signature using Brainpool p384r1	6.3.32	S1.2.2.4:O6a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.2.1.	... .. with a x-only r value	6.3.23	S1.2.2.4.1:O8	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.2.2.	... .. with a compressed r value	6.3.23	S1.2.2.4.1:O8	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.4.2.3.	... .. with an uncompressed r value	6.3.23	S1.2.2.4.1:O8	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.	Determine that certificate used to sign data is valid (part of a consistent chain, valid at the current time and location, has not been revoked)	5.2	S1.2.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.	Determine that the generation location is consistent with the region in the certificate	5.2.4.2.3, 6.4.17	S1.2.2.5:M	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Security configuration (top-level)	Reference	Status	Support
S1.2.2.5.1.1.	Support a circularRegion	6.4.17, 6.4.18	S1.2.2.5.1:O9	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.2.	Support a rectangularRegion	6.4.17, 6.4.20	S1.2.2.5.1:O9	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.2.1.	Maximum number of rectangularRegions supported	6.4.17, 6.4.20	S1.2.2.5.1.2 8:M > 8:O	Enter number: ()
S1.2.2.5.1.3.	Support a polygonalRegion	6.4.17, 6.4.21	S1.2.2.5.1:O9	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.3.1.	Maximum number of points in a polygonalRegion	6.4.17, 6.4.21	S1.2.2.5.1.3 8:M > 8:O	Enter number: ()
S1.2.2.5.1.4.	Support identifiedRegion	6.4.17, 6.4.22	S1.2.2.5.1:O9	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.4.1.	Maximum number of identifiedRegions supported	6.4.17, 6.4.22	S1.2.2.5.1.4: 8:M > 8:O	Enter number: ()
S1.2.2.5.1.4.2.	Support IdentifiedRegion of type CountryOnly	6.4.22, 6.4.23	S1.2.2.5.1.4:O 10	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.4.3.	Support IdentifiedRegion of type CountryAndRegions	6.4.22, 6.4.24	S1.2.2.5.1.4:O 10	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.4.4.	Support IdentifiedRegion of type CountryAndSubregions	6.4.22, 6.4.25	S1.2.2.5.1.4:O 10	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.1.4.5.	List of supported IdentifiedRegions (see note) NOTE: This list might or might not include an indication of the accuracy of the internal representation of each identified region.	5.2.4.4, 6.4.22	S1.2.2.5.1.4:M	Provide as Additional Information
S1.2.2.5.2.	Determine that the certificate has the proper appPermissions	6.4.8, 6.4.28	S1.2.2.5: M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.5.2.1.	Maximum number of PsidSsp in the appPermissions sequence	6.4.8, 6.4.28	S1.2.2.5.2 8:M > 8:O	Enter number: ()
S1.2.2.5.3.	Maximum supported length of the full chain (sending)	5.1.2.2	S1.2.2.5: 2:M >2:O	Enter number: ()
S1.2.2.6.	Determine that key and certificate used to sign are a valid pair	5.3.7	S1.2.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.7.	Support signing with explicit certificates	6.4.6	S1.2.2.5:O11	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.8.	Support signing with implicit certificates	5.3.2, 6.4.5	S1.2.2.5:O11	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.2.9.	Generate Elliptic Curve Digital Signature Algorithm (ECDSA) keypairs using a high-quality random number generator	5.3.6	S1.2.2.4.1: M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.	Create Ieee1609Dot2Data containing EncryptedData	4.2.2.3.2, 5.3.4, 6.3.33	S1.2:O2	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.1.	Generate Elliptic Curve Integrated Encryption Scheme (ECIES) ephemeral keypairs using a high-quality random number generator	5.3.4, 5.3.5, 5.3.6	S1.3.3: M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.2.	Maximum number of recipients supported	6.3.33	S1.2.3 8:M > 8:O	Enter number: ()
S1.2.3.2.1.	Containing PreSharedKeyRecipientInfo	6.3.34, 6.3.35	S1.2.3.2:O12	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.2.2.	Containing symmRecipientInfo	6.3.34, 6.3.36	S1.2.3.2:O12	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.2.3.	Containing certRecipientInfo	6.3.34, 6.3.37	S1.2.3.2:O12	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.2.4.	Containing signedDataRecipientInfo	6.3.34, 6.3.37	S1.2.3.2:O12	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.2.5.	Containing rekRecipientInfo	6.3.34, 6.3.37	S1.2.3.2:O12	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.	Support public-key encryption	5.3.5	S1.2.3.2.3 OR S1.2.3.2.4 OR S1.2.3.2.5:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.1.	... using ECIES-256	5.3.5	S1.2.3.3:M	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Security configuration (top-level)	Reference	Status	Support
S1.2.3.3.1.1.	... .. using NIST p256	5.3.5	S1.2.3.3.1:O14	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.1.2.	... .. using Brainpool p256r1	5.3.5	S1.2.3.3.1:O14	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.1.3.	Support encrypting to an uncompressed encryption key	6.3.18	S1.2.3.3.1:O15	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.1.4.	Support encrypting to a compressed encryption key	6.3.18	S1.2.3.3.1:O15	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.1.5.	Support encrypting to an encryption key included in an explicit cert	6.3.18	S1.2.3.3.1:O16	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.1.6.	Support encrypting to an encryption key included in an implicit cert	6.3.18	S1.2.3.3.1:O16	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.3.2.	... using a different algorithm introduced at a later date	6.3.40	S1.2.3.3:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.4.	Support symmetric encryption	6.3.41	S1.2.3:O13	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.4.1.	... using AES-128	5.3.8, 6.3.41	S1.2.3.4:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.4.2.	... using a different algorithm introduced at a later date	6.3.37	S1.2.3.4:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.2.3.5.	Return ephemeral key used in data encryption	5.3.4, 6.3.34	S1.2.3.4:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.	Receive secured protocol data unit (SPDU)		S1:O2	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.1.	Support preprocessing SPDUs	4.2.2.3.1	S1.3.2.3.1, S3.3 S3.4:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.	Verify Ieee1609Dot2Data containing SignedData	4.2.2.3.2, 5.2, 5.3.1, 5.3.3, 5.3.7, 6.3.4, 6.3.9	S1.3:O17	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.1.	Using a valid HashAlgorithm		S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.1.1.	Verify signed data using HashAlgorithm SHA-256	6.3.5	S1.3.2.1:O17a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.1.2.	Verify signed data using HashAlgorithm SHA-384	6.3.5	S1.3.2.1:O17a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.1.3.	Verify signed data using another HashAlgorithm	6.3.5	S1.3.2.1:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.	Containing a Signed Data payload	6.3.6	S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.1.	... with payload containing data	6.3.7	S1.3.2.2:O18	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.2.	... with payload containing extDataHash	6.3.7	S1.3.2.2:O18	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.3.	... with generationTime in the security headers	6.3.9, 6.3.11	S1.3.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.4.	... with expiryTime in the security headers	6.3.9, 6.3.11	S1.3.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.5.	... with generationLocation in the security headers	6.3.9, 6.3.12	S1.3.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.6.	... with missingCertIdentifier in the security headers	6.3.9, 6.3.27	S1.3.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.7.	... with missingCrlIdentifier in the security headers	6.3.9, 6.3.16	S1.3.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.8.	... with encryptionKey in the security headers	6.3.9, 6.3.18	S1.3.2.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.9.	... with pduFunctionalType in the security headers	6.3.9, 6.3.25	S1.3.2.2: O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.9.1.	... .. with a PublicEncryptionKey	6.3.9, 6.3.18, 6.3.19	S1.3.2.2.8:O19	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.2.9.2.	... .. with a SymmetricEncryptionKey	6.3.9, 6.3.18, 6.3.20	S1.3.2.2.8:O19	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.3.	Support a SignerIdentifier	6.3.26	S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.3.1.	... of type digest	6.3.28	S1.3.2.3:O20	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.3.2.	... of type certificate	6.4.2	S1.3.2.3:O20	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.3.2.1.	... .. maximum number of certificates included in the SignerIdentifier	6.3.26	S1.3.2.3.2 1:M > 1:O	Enter number: ()
S1.3.2.4.	Support a Signature	6.3.30	S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.	... a ecdsa256Signature	6.3.31	S1.3.2.4:)O20a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.1.	... .. using NIST p256	6.3.31	S1.3.2.4.1:O21	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.2.	... .. using Brainpool p256r1	6.3.31	S1.3.2.4.1:O21	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Security configuration (top-level)	Reference	Status	Support
S1.3.2.4.1.3.	... .. with a x-only <i>r</i> value	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.4.	... .. with a compressed <i>r</i> value	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.5.	... .. with a compressed <i>r</i> value and fast verification	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.6.	... .. with a uncompressed <i>r</i> value	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.1.7.	... .. with a uncompressed <i>r</i> value and fast verification	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.2.	... an ecdsa384Signature using Brainpool p384r1	6.3.32	S1.3.2.4:O20a	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.2.1.	... .. with a x-only <i>r</i> value	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.2.2.	... .. with a compressed <i>r</i> value	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.2.3.	... .. with a compressed <i>r</i> value and fast verification	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.2.4.	... .. with a uncompressed <i>r</i> value	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.4.2.5.	... .. with a uncompressed <i>r</i> value and fast verification	6.3.23	S1.3.2.4.1:O22	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.	SignedData verification fails if the certificate is not valid (part of a consistent chain, valid at the current time and location, has not been revoked)	5.2, 6.4.2	S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.	Reject data based on generation location being inconsistent with certificate	6.4.8, 6.4.17	S1.3.2.5:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.1.	... using a circularRegion	6.4.17, 6.4.18	S1.3.2.5.1:O23	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.2.	Support a rectangularRegion	6.4.17, 6.4.20	S1.3.2.5.1:O23	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.3.	Maximum number of rectangularRegions supported	6.4.17, 6.4.20	S1.3.2.5.1.2 8:M > 8:O	Enter number: ()
S1.3.2.5.1.4.	Support a polygonalRegion	6.4.17, 6.4.21	S1.3.2.5.1:O23	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.5.	Maximum number of points in a polygonalRegion	6.4.17, 6.4.21	S1.3.2.5.1.4 8:M > 8:O	Enter number: ()
S1.3.2.5.1.6.	Support identifiedRegion	6.4.17, 6.4.22	S1.3.2.5.1 8:M > 8:O	Enter number: ()
S1.3.2.5.1.6.1.	Maximum number of identifiedRegions supported	6.4.17, 6.4.22	S1.3.2.5.1.6: 8:M > 8:O	Enter number: ()
S1.3.2.5.1.6.2.	Support IdentifiedRegion of type CountryOnly	6.4.22, 6.4.23	S1.3.2.5.1.6:O 24	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.6.3.	Support IdentifiedRegion of type CountryAndRegions	6.4.22, 6.4.24	S1.3.2.5.1.6:O 24	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.6.4.	Support IdentifiedRegion of type CountryAndSubregions	6.4.22, 6.4.25	S1.3.2.5.1.6:O 24	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.1.6.5.	List of supported IdentifiedRegions and the accuracy of each	5.2.4.4, 6.4.22	S1.2.2.5.1.4:M	Provide as Additional Information
S1.3.2.5.2.	Reject data if the certificate does not have the proper appPermissions	6.4.8, 6.4.28	S1.3.2.5:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.3.	Maximum number of PsidSsp in the appPermissions sequence	6.4.8, 6.4.28	S1.3.2.5 8:O > 8:O	Enter number: ()
S1.3.2.5.4.	Determine that the assuranceLevel is an acceptable level	6.4.8, 6.4.27	S1.3.2.5:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.5.5.	Maximum supported length of the full chain (receiving)	5.1.2.2	S1.2.2.5: 2:M >2:O	Enter number: ()
S1.3.2.6.	Support verifying SPDUs signed with explicit authorization certificates	6.4.5	S1.3.2:O25	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.7.	Support verifying SPDUs signed with implicit authorization certificates	5.3.2, 6.4.5	S1.3.2:O25	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.8.	Support explicit certificate authority (CA) certificates	6.4.2, 6.4.6	S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.9.	Support receiving implicit CA certificates	6.4.2, 6.4.5	S1.3.2:O	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Security configuration (top-level)	Reference	Status	Support
S1.3.2.10.	SignedData verification fails in the following circumstances:	6.3.4	S1.3.2:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.1.	... SPDU-Parsing: Invalid Input	6.3.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.2.	... SPDU-Parsing: Unsupported critical information field	6	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.3.	... SPDU-Parsing: Certificate not found	4.3, 6.3.13, 6.3.14, 6.3.15	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.4.	... SPDU-Parsing: Generation time not available	4.3, 6.3.13, 6.3.14, 6.3.15	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.5.	... SPDU-Parsing: Generation location not available	4.3, 6.3.13, 6.3.14, 6.3.15	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.6.	... SPDU-Certificate-Chain: Not enough information to construct chain	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.7.	... SPDU-Certificate-Chain: Chain ended at untrusted root	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.8.	... SPDU-Certificate-Chain: Chain was too long for implementation	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.9.	... SPDU-Certificate-Chain: Certificate revoked	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.10.	... SPDU-Certificate-Chain: Overdue CRL	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.11.	... SPDU-Certificate-Chain: Inconsistent expiry times	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.12.	... SPDU-Certificate-Chain: Inconsistent start times	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.13.	... SPDU-Certificate-Chain: Inconsistent chain permissions	5.1.2	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.14.	... SPDU-Crypto: Verification failure	5.3.1	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.15.	... SPDU-Consistency: Future certificate at generation time	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.16.	... SPDU-Consistency: Expired certificate at generation time	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.17.	... SPDU-Consistency: Expiry date too early	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.18.	... SPDU-Consistency: Expiry date too late	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.19.	... SPDU-Consistency: Generation location outside validity region	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.20.	... SPDU-Consistency: Unauthorized PSID	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.21.	... SPDU-Internal-Consistency: Expiry time before generation time	6.4.8, 6.4.14, 5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.22.	... SPDU-Internal-Consistency: extDataHash does not match	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.23.	... SPDU-Local-Consistency: PSIDs do not match	5.2.4	S1.3.2.10:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.24.	... SPDU-Local-Consistency: Chain was too long for SDEE	5.2.4	S1.3.2.10:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.25.	... SPDU-Relevance: SPDU Too Old	5.2.5	S1.3.2.10:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.26.	... SPDU-Relevance: Future SPDU	5.2.5	S1.3.2.10:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.27.	... SPDU-Relevance: Expired SPDU	5.2.5	S1.3.2.10:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.28.	... SPDU-Relevance: SPDU Too Distant	5.2.5	S1.3.2.10:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.2.10.29.	... SPDU-Relevance: Replayed SPDU	5.2.5	S1.3.2.10:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.	Decrypt Ieee1609Dot2Data containing EncryptedData	4.2.2.3.3, 5.3.5, 6.3.33	S1.3:O17	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.1.	Generate ECIES keypairs using a high-quality random number generator	5.3.4, 5.3.5, 5.3.6	S1.3.3: M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.2.	Maximum number of RecipientInfos supported in an incoming EncryptedData	6.3.33	S1.3.3: 8:M > 8:O	Enter number: ()
S1.3.3.2.1.	Containing pskRecipientInfo	6.3.34, 6.3.37	S1.3.3.2:O26	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.2.2.	Containing symmRecipientInfo	6.3.34	S1.3.3.2:O26	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Security configuration (top-level)	Reference	Status	Support
S1.3.3.2.3.	Containing certRecipientInfo	6.3.34	S1.3.3.2:O26	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.2.4.	Containing signedDataRecipientInfo	6.3.34	S1.3.3.2:O26	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.2.5.	Containing rekRecipientInfo	6.3.34	S1.3.3.2:O26	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.3.	Support decrypting using a public-key algorithm	5.3.5	S1.3.3.2.3 OR S1.3.3.2.4 OR S1.3.3.2.5:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.3.1.	... using ECIES-256	5.3.5	S1.3.3.3:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.3.1.1.	... .. using NIST p256	5.3.5	S1.3.3.3:O28	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.3.1.2.	... .. using Brainpool p256r1	5.3.5	S1.3.3.3:O28	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.3.2.	... using a different algorithm introduced at a later date	6.3.40	S1.3.3.3:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.4.	Support decrypting using a symmetric algorithm	6.3.41	S1.3.3:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.4.1.	... using AES-128	6.3.41	S1.3.3.4:M	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.4.2.	... using a different algorithm introduced at a later date	6.3.37	S1.3.3.4:O	<input type="checkbox"/> Yes <input type="checkbox"/> No
S1.3.3.4.3.R	Return ephemeral key when decrypting	5.3.4	S1.3.3:O	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7 ETSI TS 103 097 PICS pro forma

These PICS override the PICS described in clause A.6 of IEEE Std 1609.2 [2] PICS pro forma.

Unless stated otherwise, the column references of all tables below indicate the clause numbers of ETSI TS 103 097 [1].

Table A.1: Security profile for CAMs

Item	Is the IUT implemented to support:	Reference	Override	Status	Support
1	Secured CA messages	7.1.1		O	<input type="checkbox"/> Yes <input type="checkbox"/> No
2	Inline P2PCD operations	7.1.1 [2], 8.2.4.1.2, 8.2.4.2.3	[2], S3.6	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
3	Support a signer identifier of type digest	7.1.1	[2], S1.2.2.3.1	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
4	Support a signer identifier of type certificate		[2], S1.2.2.3.2	M	<input type="checkbox"/> Yes <input type="checkbox"/> No

Table A.2: Security profile for DENMs

Item	Is the IUT implemented to support:	Reference	Override	Status	Support
1	Secured DEN messages	7.1.2		O	<input type="checkbox"/> Yes <input type="checkbox"/> No
4	Support a signer identifier of type certificate	7.1.2	[2], S1.2.2.3.2	M	<input type="checkbox"/> Yes <input type="checkbox"/> No

Table A.3: Security profile for other messages

Item	Is the IUT implemented to support:	Reference	Status	Support
1	Secured other messages	7.1.3	O	<input type="checkbox"/> Yes <input type="checkbox"/> No

Table A.4: Security profile for other messages

Item	Is the IUT implemented to support:	Reference	Status	Support
1	Secured other messages	7.1.3	O	<input type="checkbox"/> Yes <input type="checkbox"/> No

Table A.5: Protocol constants

Item	Constant	Value allowed	Reference	Status	Value
1	Beacon ITS AID	0 - skip beacon tests NN - value of ITS AID Default: 141 (GN-MGMT)	7.3	M	Enter value ()

Table A.6: Certificate management

Item	Is the IUT implemented to support:	Reference	Status	Support
1	Loading of custom certificates	6	O	<input type="checkbox"/> Yes <input type="checkbox"/> No

History

Document history		
V1.1.1	July 2013	Publication
V1.2.1	September 2015	Publication
V1.3.1	March 2017	Publication
V1.4.1	August 2018	Publication
V1.5.1	January 2022	Publication