



TECHNICAL SPECIFICATION

**Intelligent Transport Systems (ITS);  
Testing;  
Conformance test specifications for GeoNetworking;  
Part 1: Test requirements and Protocol Implementation  
Conformance Statement (PICS) pro forma;  
Release 2**

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**Reference**

RTS/ITS-00102

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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 GeoNetworking, as identified below:

**Part 1:** "**Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma**";

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

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

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# 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 Conformance test specifications for ITS GeoNetworking as defined in ETSI TS 103 836-4-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [i.2].

---

## 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 103 836-4-1 \(V2.1.1\)](#): "Intelligent Transport Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 1: Media-Independent Functionality; Release 2".
- [2] [ETSI TS 103 836-4-2 \(V2.1.1\)](#): "Intelligent Transport Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 2: Media-dependent functionalities for ITS-G5; Release 2".
- [3] [ETSI TS 103 836-4-3 \(V2.1.1\)](#): "Intelligent Transport Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 3: Media-dependent functionalities for NR-V2X PC5 and LTE-V2X PC5; Release 2".
- [4] [IEEE Std 1609.2™-2016 including amendments IEEE Std 1609.2a™-2017 and IEEE Std 1609.2b™-2019](#): "IEEE Standard for Wireless Access in Vehicular Environments -- Security Services for Applications and Management Messages".

### 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.

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The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

- [i.1] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [i.2] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 103 836-4-1 [1], ISO/IEC 9646-1 [i.1] and ISO/IEC 9646-7 [i.2] apply.

### 3.2 Symbols

Void.

### 3.3 Abbreviations

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

CBF	Contention-Based Forwarding
GAC	Geographically-Scoped Anycast
GBC	Geographically-Scoped Broadcast
GEONET	GeoNetworking
GUC	Geo Unicast
ICS	Implementation Conformance Statement
ITS	Intelligent Transportation Systems
ITS-G5	5 GHz wireless communication
IUT	Implementation Under Test
LS	Location Service
LTE	Long Term Evolution
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
SHB	Single Hop Broadcast
SUT	System Under Test
TSB	Topology Scoped Broadcast
V2X	Vehicle to any

---

## 4 Conformance requirement concerning PICS

If it claims to conform to the present document, the actual PICS pro forma to be filled in by a supplier shall be technically equivalent to the text of the PICS pro forma given in annex A, and shall preserve the numbering, naming and ordering of the pro forma items.

An ICS which conforms to the present document shall be a conforming PICS pro forma completed in accordance with the instructions for completion given in clause A.2.

---

## 5 Mnemonics for PICS reference

To avoid an update of all related documents when the PICS document is changed, table 1 introduces mnemonic names and the correspondence with the PICS item number.

Table 1: Mnemonics for PICS reference

Mnemonic	PICS item
PICS_GN_LOCAL_GN_ADDR	A.15/1
PICS_GN_LOCAL_ADDR_CONF_METHOD	A.15/2
PICS_GN_IS_MOBILE	A.15/4
PICS_GN_IF_TYPE	A.15/5
PICS_GN_MINIMUM_UPDATE_FREQUENCY_LPV	A.15/6
PICS_GN_MAX_SDU_SIZE	A.15/8
PICS_GN_MAX_GN_HEADER_SIZE	A.15/9
PICS_GN_LIFETIME_LOC_TE	A.15/10
PICS_GN_SECURITY	A.15/11
PICS_GN_LOCATION_SERVICE_MAX_RETRANS	A.15/13
PICS_GN_LOCATION_SERVICE_RETRANSMIT_TIMER	A.15/14
PICS_GN_LOCATION_SERVICE_PACKET_BUFFER_SIZE	A.15/15
PICS_GN_BEACON_SERVICE_RETRANSMIT_TIMER	A.15/16
PICS_GN_BEACON_SERVICE_MAX_JITTER	A.15/17
PICS_GN_DEFAULT_HOP_LIMIT	A.15/18
PICS_GN_MAX_PACKET_LIFETIME	A.15/20
PICS_GN_MAX_GEO_AREA_SIZE	A.15/24
PICS_GN_MIN_PACKET_REPETITION_INTERVAL	A.15/25
PICS_GN_NON_AREA_FORWARDING_ALGORITHM	A.15/26
PICS_GN_AREA_FORWARDING_ALGORITHM	A.15/27
PICS_GN_CBF_MIN_TIME	A.15/28
PICS_GN_CBF_MAX_TIME	A.15/29
PICS_GN_DEFAULT_MAX_COMMUNICATION_RANGE	A.15/30
PICS_GN_UC_FORWARDING_PACKET_BUFFER_SIZE	A.15/32
PICS_GN_BC_FORWARDING_PACKET_BUFFER_SIZE	A.15/33
PICS_GN_BEACON_SRC	A.7/1
PICS_GN_BEACON_DST	A.7/2
PICS_GUC	A.6/7
PICS_GN_GUC_SRC	A.10/1
PICS_GN_GUC_DST	A.10/3
PICS_GN_GUC_FWD	A.10/2
PICS_GBC	A.6/10
PICS_GN_GBC_SRC	A.13/1
PICS_GN_GBC_DST	A.13/2
PICS_GN_GBC_FWD	A.13/2
PICS_GAC	A.6/11
PICS_GN_GAC_SRC	A.14/1
PICS_GN_GAC_DST	A.14/2
PICS_GN_GAC_FWD	A.14/2
PICS_SHB	A.6/9
PICS_GN_SHB_SRC	A.12/1
PICS_GN_SHB_DST	A.12/2
PICS_TSB	A.6/8
PICS_GN_TSB_SRC	A.11/1
PICS_GN_TSB_DST	A.11/2
PICS_GN_TSB_FWD	A.11/2
PICS_GN_LS_REQ_SRC	A.9/1
PICS_GN_LS_REQ_RETRANSMISSION	A.9/2
PICS_GN_LS_REQ_DST	A.8/3
PICS_GN_LS_REP_DST	A.9/3
PICS_GN_LS_FWD	A.8/2
PICS_GN_ADDR_AUTO	A.3/1
PICS_GN_ADDR_MANAGED	A.3/2
PICS_GN_ADDR_ANONYMOUS	A.3/3
PICS_GN_DAD	A.3/4
PICS_GN_LTE_TIME_SYNC	A.17/1

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# Annex A (normative): GeoNetworking PICS pro forma (Media independent)

## 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.

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## 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**

The reference column gives reference to ETSI TS 103 836-4-1 [1] unless otherwise stated.

### 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, annex A [4]. 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.

## A.2.3 Instructions for completing the ICS 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 implementation

### 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 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

## A.3.4 System Under Test (SUT) identification

SUT name:

.....  
.....

Hardware configuration:

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

Operating system:

.....

## A.3.5 Product supplier

Name:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

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

### A.3.6 Client (if different from product supplier)

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

### A.3.7 ICS contact person

(A person to contact if there are any queries concerning the content of the ICS)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

## A.4 Identification of the protocol

This ICS pro forma applies to the following standards:

ETSI TS 103 836-4-1 (V2.1.1) [1]: "Intelligent Transportation Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 1: Media-Independent Functionality; Release 2".

ETSI TS 103 836-4-2 (V2.1.1) [2]: "Intelligent Transportation Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 2: Media-dependent functionalities for ITS-G5; Release 2".

ETSI TS 103 836-4-3 (V2.1.1) [3]: "Intelligent Transportation Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 3: Media-dependent functionalities for NR-V2X PC5 and LTE-V2X PC5; Release 2".

## A.5 Global statement of conformance

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

NOTE: Answering "No" to this question indicates nonconformance to the GEONET standard specification. No supported mandatory capabilities are to be identified in the ICS, with an explanation of why the implementation is nonconforming, on pages attached to the ICS pro forma.

## A.6 Tables

### A.6.1 Introduction

Unless stated otherwise, the column references of all tables below indicates the clause numbers of ETSI TS 103 836-4-1 [1].

### A.6.2 Media independent

#### A.6.2.1 Introduction

This clause of the ICS pro forma applies to the following standard: ETSI TS 103 836-4-1 [1].

#### A.6.2.2 Protocol operation

**Table A.1: Protocol operation**

Item	Name of field	Reference	Status	Support
1	Network management	10.2	m	
2	Packet handling	10.3	m	

**Table A.2: Network management**

Prerequisite: A.1/1				
Item	Name of field	Reference	Status	Support
1	Address configuration	10.2.1	m	
2	Ego position vector and time update	10.2.2	m	
3	Beaconing	10.2.3	m	
4	Location service	10.2.4	m	

**Table A.3: Address configuration**

Prerequisite: A.21				
Item	Name of field	Reference	Status	Support
1	Auto-address configuration	10.2.1.2	m	
2	Managed address configuration	10.2.1.3	m	
3	Anonymous address configuration	10.2.1.4	m	
4	Duplicate address detection	10.2.1.5	m	

**Table A.4: Managed address configuration**

Prerequisite: A.3/2				
Item	Name of field	Reference	Status	Support
1	Initial address configuration	10.2.1.3.1	m	
2	Address update	10.2.1.3.2	m	

**Table A.5: Local position and time update**

Prerequisite: A.2/2				
Item	Name of field	Reference	Status	Support
1	Ego position vector update	10.2.2.2	m	
2	Time update	10.2.2.3	m	

**Table A.6: Packet handling**

Prerequisite: A.1/2				
Item	Name of field	Reference	Status	Support
1	Basic Header field settings	10.3.2	m	
2	Basic Header processing	10.3.3	m	
3	Common Header field settings	10.3.4	m	
4	Common Header processing	10.3.5	m	
5	Beacon packet handling	10.3.6	m	
6	Location service packet handling	10.3.7	m	
7	GUC packet handling	10.3.8	m	
8	TSB packet handling	10.3.9	m	
9	SHB packet handling	10.3.10	m	
10	GBC packet handling	10.3.11	m	
11	GAC packet handling	10.3.12	m	

**Table A.7: Beacon packet handling**

Prerequisite: A.6/5				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.6.2	m	
2	Receiver operations	10.3.6.3	m	

**Table A.8: Location service packet handling**

Prerequisite: A.6/6				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.7.1	m	
2	Forwarder operations	10.3.7.2	m	
3	Destination operations	10.3.7.3	m	

**Table A.9: Source operations for Location service**

Prerequisite: A.8/1				
Item	Name of field	Reference	Status	Support
1	Source operation for initial LS Request	10.3.7.1.2	m	
2	Source operation for LS Request re-transmission	10.3.7.1.3	m	
3	Source operation for LS Reply	10.3.7.1.4	m	

**Table A.10: GUC Packet handling**

Prerequisite: A.6/7				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.8.2	m	
2	Forwarder operations	10.3.8.3	m	
3	Destination operations	10.3.8.4	m	

**Table A.11: TSB Packet handling**

Prerequisite: A.6/8				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.9.2	m	
2	Forwarder and receiver operations	10.3.9.3	m	

**Table A.12: SHB Packet handling**

Prerequisite: A.6/9				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.10.2	m	
2	Receiver operations	10.3.10.3	m	

**Table A.13: GBC Packet handling**

Prerequisite: A.6/10				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.11.2	m	
2	Forwarder and receiver operations	10.3.11.3	m	

**Table A.14: GAC Packet handling**

Prerequisite: A.6/11				
Item	Name of field	Reference	Status	Support
1	Source operations	10.3.12.2	m	
2	Forwarder and receiver operations	10.3.12.3	m	

## A.6.2.3 Protocol constants

Table A.15: Protocol constants

Item	Constant	Ref.	Status	Value allowed	Value
1	itsGnLocalGnAddr	Annex H	m	0 .. 2 <sup>48</sup> -1	
2	itsGnLocalAddrConfMethod	Annex H	m	Auto (0) Managed (1) Anonymous (2)	Managed (1)
3	itsGnProtocolVersion	Annex H	m	1	
4	itsGnIsMobile	Annex H	m	Stationary (0) Mobile (1)	
5	itsGnIfType	Annex H	m	Unspecified (0) ITS-G5 (1) LTE-V2X (2)	
6	itsGnMinimumUpdateFrequencyLPV	Annex H	m	0 .. 65 635	1 000
7	itsGnPaiInterval	Annex H	m	0 .. 100	80
8	itsGnMaxSduSize	Annex H	m	0 .. 65 635	1 398
9	itsGnMaxGeoNetworkingHeaderSize	Annex H	m	0 .. 65 635	88
10	itsGnLifetimeLocTE	Annex H	m	0 .. 65 635	20
11	itsGnSecurity	Annex H	m	DISABLED (0) ENABLED (1)	
12	itsGnSnDecapResultHandling	Annex H	m	STRICT (0) NON-STRICT (1)	
13	itsGnLocationServiceMaxRetrans	Annex H	m	0 .. 255	10
14	itsGnLocationServiceRetransmitTimer	Annex H	m	0 .. 65 635	1 000
15	itsGnLocationServicePacketBufferSize	Annex H	m	0 .. 65 635	1 024
16	itsGnBeaconServiceRetransmitTimer	Annex H	m	0 .. 65 635	3 000
17	itsGnBeaconServiceMaxJitter	Annex H	m	itsGnMaxPacketLifetime / 4	
18	itsGnDefaultHopLimit	Annex H	m	0 .. 255	10
19	itsGnDPLLength	Annex H	m	0 .. 255	8
20	itsGnMaxPacketLifetime	Annex H	m	0 .. 6 300	600
21	itsGnDefaultPacketLifetime	Annex H	m	0 .. 6 300	60
22	itsGnMaxPacketDataRate	Annex H	m	0 .. 65 635	100
23	itsGnMaxPacketDataRateEmaBeta	Annex H	m	0 .. 65 635	90
24	itsGnMaxGeoAreaSize	Annex H	m	0 .. 65 635	10
25	itsGnMinPacketRepetitionInterval	Annex H	m	0 .. 1 000	100
26	itsGnNonAreaForwardingAlgorithm	Annex H	m	UNSPECIFIED (0) GREEDY (1) CBF (2)	GREEDY (1)
27	itsGnAreaForwardingAlgorithm	Annex H	m	UNSPECIFIED (0) SIMPLE (1) CBF(2) ADVANCED (3)	CBF (2)
28	itsGnCbfMinTime	Annex H	m	0 .. 65 635	1
29	itsGnCbfMaxTime	Annex H	m	0 .. 65 635	100
30	itsGnDefaultMaxCommunicationRange	Annex H	m	0 .. 65 635	1 000
31	itsGnBroadcastCBFDefSectorAngle	Annex H	m	0 .. 360	30
32	itsGnUcForwardingPacketBufferSize	Annex H	m	0 .. 255	256
33	itsGnBcForwardingPacketBufferSize	Annex H	m	0 .. 65 635	1 024
34	itsGnCbfPacketBufferSize	Annex H	m	0 .. 65 635	256
35	itsGnDefaultTrafficClass	Annex H	m	0 .. 255	0x00

ITS Release 2 Implementations Under Test (IUT), conformed to ETSI TS 103 836-4-1 [1] shall not have constant itsGnAreaForwardingAlgorithm set to value ADVANCED (3).

## A.6.3 Media dependent

### A.6.3.1 ITS-G5 media dependent functionality

**Table A.16: ITS-G5 media dependent functionality**

Prerequisite: A.15/5 = 1 (ITS-G5)				
Item	Name of field	Reference	Status	Support
1	DCC_NET support	ETSI TS 103 836-4-3 [3], clause 5	m	

### A.6.3.2 LTE C-V2X media dependent functionality

**Table A.17: TSB Packet handling**

Prerequisite: A.15/5 = 2 (LTE C-V2X)				
Item	Name of field	Reference	Status	Support
1	Time synchronization	ETSI TS 103 836-4-3 [3], clause 5.3.4	m	

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## History

<b>Version</b>	<b>Date</b>	<b>Status</b>
V1.1.1	June 2011	Publication
V1.2.1	April 2014	Publication
V1.3.1	June 2015	Publication
V1.4.1	May 2017	Publication
V1.5.1	March 2022	Publication
V2.1.1	January 2026	Publication