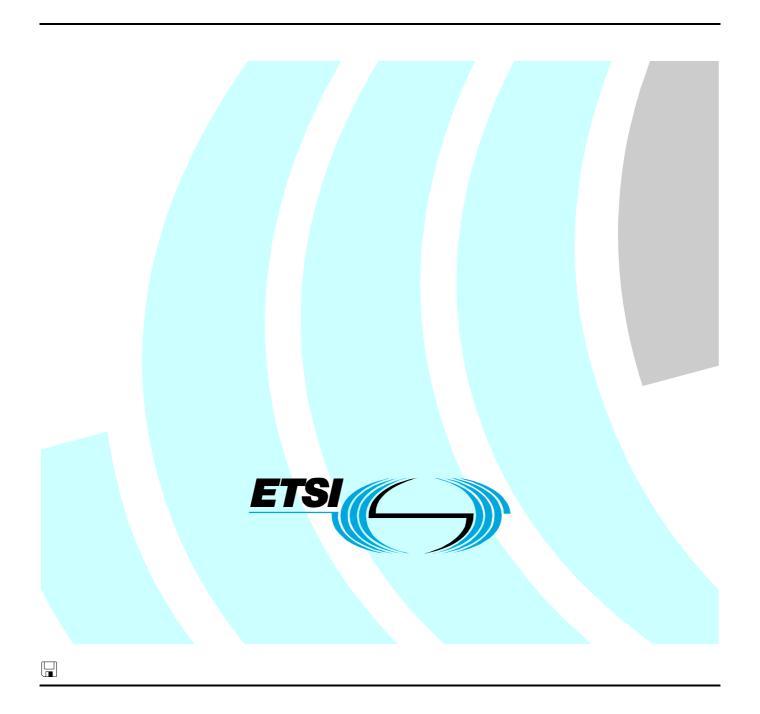
ETSITS 102 871-3 V1.1.1 (2011-06)

Technical Specification

Intelligent Transport Systems (ITS);

Testing;

Conformance test specification for GeoNetworking ITS-G5; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)



Reference

DTS/ITS-0030013

Keywords

ATS, ITS, network, testing, PIXIT

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Foreword

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

The present document is part 3 of a multi-part deliverable covering Conformance test specification for Geonetworking ITS-G5 as identified below:

- Part 1: "Test requirements and Protocol Implementation Conformance Statement (PICS) proforma";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";
- Part 3: "Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)".

The development of ITS test specifications follows the guidance provided in the EG 202 798 [i.2]. Therefore this ATS documentation is also based on the guidance provided in EG 202 798 [i.2].

1 Scope

The present document contains the Abstract Test Suite (ATS) for Geonetworking ITS-G5 as defined in TS 102 636-4-1 [1] and TS 102 636-4-2 [i.1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [5].

The objective of the present document is to provide a basis for conformance tests for Geonetworking ITS-G5 equipment giving a high probability of inter-operability between different manufacturer's equipment.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [2] and ISO/IEC 9646-2 [3]) as well as the ETSI rules for conformance testing (ETS 300 406 [6]) are used as a basis for the test methodology.

2 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 http://docbox.etsi.org/Reference.

2.1 Normative references

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

[1]	ETSI TS 102 636-4-1 (V1.1.1): "Intelligent Transport System (ITS); Vehicular communications;
	GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and
	point-to-multipoint communications; Sub-part 1: Media independent functionalities".

- [2] ISO/IEC 9646-1 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [3] ISO/IEC 9646-2 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract Test Suite specification".
- [4] ISO/IEC 9646-6 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 6: Protocol profile test specification".
- [5] ISO/IEC 9646-7 (1995): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [6] ETSI ETS 300 406 (1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [7] ETSI ES 201 873-1: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 1: TTCN-3 Core Language".
- [8] ETSI ES 201 873-7: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 7: Using ASN.1 with TTCN-3".

2.2 Informative references

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] ETSI TS 102 636-4-2: "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-G5A media".

[i.2]	ETSI EG 202 798: "Intelligent Transport Systems (ITS); Testing; Framework for conformance and interoperability testing".
[i.3]	ETSI TS 102 871-1: "Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma".
[i.4]	ETSI TS 102 871-2: "Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 2: Test Suite Structure and Test Purposes (TSS&TP)".

3 Definitions and abbreviations

3.1 Definitions

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

- terms given in TS 102 636-4-1 [1].
- terms given in ISO/IEC 9646-1 [2] and in ISO/IEC 9646-7 [5].

3.2 Abbreviations

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

ATM Abstract Test Method **ATS** Abstract Test Suite CAN Controller Area Network ITS **Intelligent Transportation Systems** ITS-G5 5 GHz wireless communication Implementation Under Test IUT Partial Protocol Implementation Extra Information for Testing **PIXIT SCS** System Conformance Statement SUT System Under Test Test Case TC Test Purposes TP **TTCN** Tree and Tabular Combined Notation Vehicle-to-Infrastructure V2I V2V Vehicle-to-Vehicle

4 Abstract Test Method (ATM)

This clause describes the ATM used to test the Geonetworking ITS-G5.

4.1 Abstract protocol tester

The abstract protocol tester used by the Geonetworking test suite is described in figure 1. The test system will simulate valid and invalid protocol behaviour, and will analyse the reaction of the IUT.

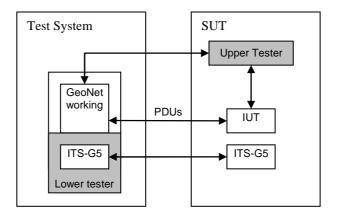


Figure 1: Abstract protocol tester - GeoNetworking

4.2 Test Configuration

This test suite uses four test configurations in order to cover the different test scenarios. In these configurations, the tester simulates one or several ITS station implementing the Geonetworking protocol.

The following notation is used to describe the test configuration:

- represents a simulated ITS station in the communication range of IUT.
- represents a simulated ITS station outside of the communication range of IUT.
- represents a GeoArea.

4.2.1 Test configuration CF01

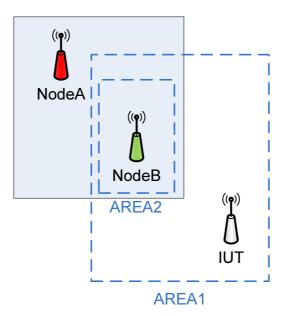


Figure 2: Test configuration CF01

ItsNodeA	is not in IUT's communication range		
ItsNodeB	is in IUT's communication range		
	is in direction of ItsNodeA		
	is in AREA1		
	is in AREA2		
IUT	is in AREA1		

4.2.2 Test configuration CF02

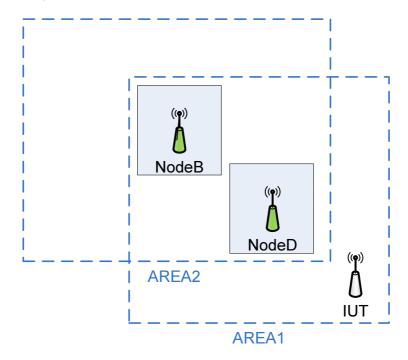


Figure 3: Test configuration CF02

ItsNodeB	is in IUT's communication range	
	is close to the center of Area2	
	is in Area 1	
	is in Area 2	
ItsNodeD	is in IUT's communication range	
	is in direction of ItsNodeB	
	is in Area 1	
	is in Area 2	
IUT	is in Area 1	

4.2.3 Test configuration CF03

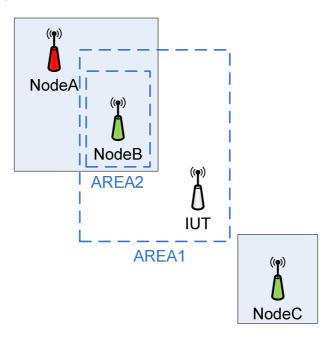


Figure 4: Test configuration CF03

ItsNodeA	is not in IUT's communication range	is not in IUT's communication range		
ItsNodeB	is in IUT's communication range			
	is in direction of ItsNodeA			
	is in Area 1			
	is in Area 2			
ItsNodeC	is in IUT's communication range			
	is not in direction of ItsNodeA			
IUT	is in Area 1	is in Area 1		

4.2.4 Test configuration CF04

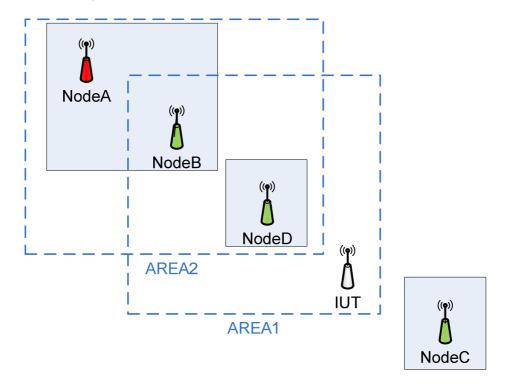


Figure 5: Test configuration CF04

ItsNodeA	is not in IUT's communication range	
	is in Area 2	
ItsNodeB	is in IUT's communication range	
	is in direction of ItsNodeA	
	is closer to ItsNodeA than ItsNodeD	
	is in Area 1	
	is in Area 2.	
	is close to the center of Area2	
ItsNodeC	is in IUT's communication range	
	is not in direction of ItsNodeA	
ItsNodeD	is in IUT's communication range	
	is in direction of ItsNodeA	
	is in Area 1	
	is in Area 2	
IUT	is in Area 1	

4.3 Test architecture

This ITS Geonetworking test specification implements the general TTCN-3 test architecture described in EG 202 798 [i.2], clauses 6.3.2 and 8.3.1.

Figure 6 shows the TTCN-3 test architecture used in for the Geonetworking ATS. In single-component testcases (configuration CF01), the MTC is of type ItsNt and communicates with SUT over geoNetworkingPort. In multi-component testcases (configuration CF02, CF03 and CF04), the MTC is of type ItsMtc and is used to synchronise the different PTCs. The PTCs are implemented using ItsNt components and communicate with SUT over geoNetworkingPort. Port geoNetworkingPort is used to exchange Geonetworking protocol messages between the Geonetworking test components and the Geonetworking IUT.

The Upper tester entity in the SUT enables triggering Geonetworking functionalities by simulating primitives from application or LDM entities. It is required to trigger the Geonetworking layer in the SUT to send Geonetworking messages, which are resulting from upper layer primitives. Furthermore, receiving Geonetworking messages may result for the Geonetworking layer in sending primitives to the upper layer.

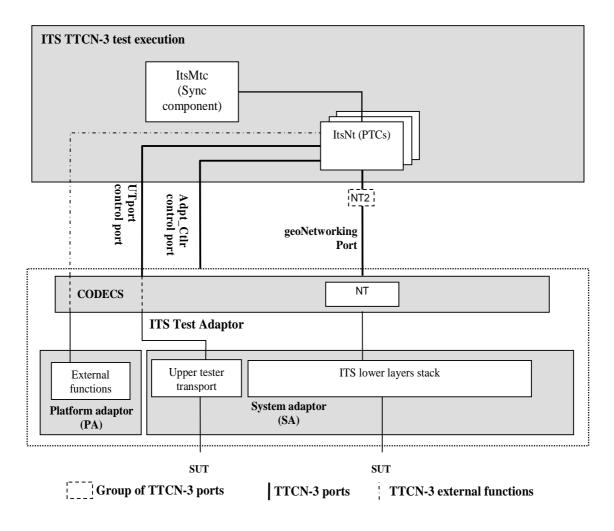


Figure 6: test system architecture

In multi-component testcases, each PTC maps the geoNetworkingPort. In this case the geoNetworkingPort is connected in a one-to-many manner, as described in ES 201 873-1 [7], clause 9.1, Figure 6h.

For each PTC mapping the geoNetworkingPort, the test adapter shall assign a different MAC layer address which will be used for all send operations of this PTC. In addition the test adapter shall follow the rules below when receiving GeoNetworking packets:

- If the lower layer headers indicate a broadcasted message, then enqueue the GeoNetworking packet on all PTCs.
- Otherwise, use the lower layer destination MAC address to determine on which PTC the GeoNetworking packet shall be enqueued.

4.4 Ports and ASPs (Abstract Services Primitives)

Two ports are used by the Geonetworking ATS:

- The geoNetworkingPort, of type GeoNetworkingPort
- The utPort of type UpperTesterPort

4.4.1 Primitives of the geoNetworkingPort

Two types of primitives are used in the geoNetworkingPort:

- The geoNetworkingInd primitive used to receive messages of type GeoNetworkingPacket.
- The geoNetworkingReq primitive used to send messages of type GeoNetworkingPacket.

4.4.2 Primitives of the utPort

This port uses two types of primitives:

- The UtInitialize primitive used to initialise IUT
- The UtTrigger primitive used trigger upper layer events in IUT

4.4.3 Primitives of the taPort

This port uses the following primitives to trigger special behaviour in Test Adapter:

- AcStartBeaconing: Test adapter shall start sending beacon messages for a simulated ITS node
- AcStopBeaconing: Test adapter shall stop sending beacon messages for a simulated ITS node
- AcStartPassBeaconing: Test adapter shall transmit received beacon messages to TTCN-3 script
- AcStopPassBeaconing: Test adapter shall not transmit received beacon messages to TTCN-3 script
- AcStartBeaconingMultipleNeighbour: Test adapter shall start sending beacon messages for multiple simulated ITS nodes
- AcStopBeaconingMultipleNeighbour: Test adapter shall stop sending beacon messages for multiple simulated ITS nodes
- AcGetLongPosVector used to retrieve IUT's position (extracted from IUT's beacon messages)

5 Untestable Test Purposes

Table 1 gives a list of TP, which are not implemented in the ATS due to the restriction of the chosen ATM.

Table 1: Untestable TP

Test purpose	Reason	
TP/GEONW/FDV/COH/BV/06	This TP would require knowing exactly when the IUT did its last position acquisition.	
	This information seem inaccessible to test system as it is strictly internal	

6 ATS conventions

The ATS conventions are intended to give a better understanding of the ATS but they also describe the conventions made for the development of the ATS. These conventions shall be considered during any later maintenance or further development of the ATS.

The ATS conventions contain two clauses, the testing conventions and the naming conventions. The testing conventions describe the functional structure of the ATS. The naming conventions describe the structure of the naming of all ATS elements.

To define the ATS, the guidelines of the document ETS 300 406 [6] was considered.

6.1 Testing conventions

6.1.1 Testing states

6.1.1.1 Initial state

All test cases start with the function f_prInitialState. This function brings the IUT in an "initialized" state by invoking the upper tester primitive UtInitialize.

6.1.1.2 Final state

All test cases end with the function f_poDefault. This function brings the IUT back in an "idle" state. As no specific actions are required for the idle state in the base standard, the function f_ poDefault does not invoke any action.

As necessary, further actions may be included in the f_poDefault function.

6.2 Naming conventions

This test suite follows the naming convention guidelines provided in the EG 202 798 [i.2].

6.2.1 General guidelines

The naming convention is based on the following underlying principles:

- in most cases, identifiers should be prefixed with a short alphabetic string (specified in table 2) indicating the type of TTCN-3 element it represents;
- suffixes should not be used except in those specific cases identified in table 7;
- prefixes and suffixes should be separated from the body of the identifier with an underscore ("_");

```
EXAMPLE 1: c_sixteen, t_wait.
```

- only module names, data type names and module parameters should begin with an upper-case letter. All other names (i.e. the part of the identifier following the prefix) should begin with a lower-case letter;
- the start of second and subsequent words in an identifier should be indicated by capitalizing the first character. Underscores should not be used for this purpose.

```
EXAMPLE 2: f_initialState.
```

Table 2 specifies the naming guidelines for each element of the TTCN-3 language indicating the recommended prefix, suffixes (if any) and capitalization.

Table 2: ETSI TTCN-3 generic naming conventions

Language element	Naming convention	Prefix	Example identifier
Module	Use upper-case initial letter	none	IPv6Templates
Group within a module	Use lower-case initial letter	none	messageGroup
Data type	Use upper-case initial letter	none	SetupContents
Message template	Use lower-case initial letter	m_	m_setupInit
Message template with wildcard or	Use lower-case initial	mw_	mw_anyUserReply
matching expression	letters		
Modifying message template	Use lower-case initial letter	md_	md_setupInit
Modifying message template with wildcard	Use lower-case initial	mdw_	mdw_anyUserReply
or matching expression	letters		
Signature template	Use lower-case initial letter	S_	s_callSignature
Port instance	Use lower-case initial letter	none	signallingPort
Test component instance	Use lower-case initial letter	none	userTerminal
Constant	Use lower-case initial letter	C_	c_maxRetransmission
Constant (defined within component type)	Use lower-case initial letter	CC_	cc_minDuration
External constant	Use lower-case initial letter	CX_	cx_macld
Function	Use lower-case initial letter	f_	f_authentication()
External function	Use lower-case initial letter	fx_	fx_calculateLength()
Altstep (incl. Default)	Use lower-case initial letter	a_	a_receiveSetup()
Test case	Use ETSI numbering	TC_	TC_COR_0009_47_ND
Variable (local)	Use lower-case initial letter	V_	v_macld
Variable (defined within a component type)	Use lower-case initial letters	VC_	vc_systemName
Timer (local)	Use lower-case initial letter	t_	t_wait
Timer (defined within a component)	Use lower-case initial letters	tc_	tc_authMin
Module parameters for PICS	Use all upper case letters	PICS_	PICS_DOOROPEN
Module parameters for other parameters	Use all upper case letters	PX_	PX_TESTER_STATION_ID
Formal Parameters	Use lower-case initial letter	p_	p_macld
Enumerated Values	Use lower-case initial letter	e_	e_syncOk

6.2.2 ITS specific TTCN-3 naming conventions

Next to such general naming conventions, table 3 shows specific naming conventions that apply to the ITS TTCN-3 test suite.

Table 3: ITS specific TTCN-3 naming conventions

Language element	Naming convention	Prefix	Example identifier
ITS Module	Use upper-case initial letter	Its"IUTname"_	ItsGeoNetworking_
Module containing types and values	Use upper-case initial letter	Its"IUTname"_TypesAndValues	ItsGeoNetworking_TypesAndValues
Module containing Templates	Use upper-case initial letter	Its"IUTname"_Templates	ItsGeoNetworking_Templates
Module containing test cases	Use upper-case initial letter	Its"IUTname"_TestCases	ItsGeoNetworking_TestCases
Module containing functions	Use upper-case initial letter	Its"IUTname"_Functions	ItsGeoNetworking_Functions
Module containing external functions	Use upper-case initial letter	Its"IUTname"_ExternalFunctions	ItsGeoNetworking_ExternalFunctions
Module containing components, ports and message definitions	Use upper-case initial letter	Its"IUTname"_Interface	ItsGeoNetworking_Interface
Module containing main component definitions	Use upper-case initial letter	Its"IUTname"_TestSystem	ItsGeoNetworking_TestSystem
Module containing the control part	Use upper-case initial letter	Its"IUTname"_TestControl	ItsGeoNetworking_TestControl

6.2.3 Usage of Log statements

All TTCN-3 log statements use the following format using the same order:

- Three asterisks
- The TTCN-3 test case or function identifier in which the log statement is defined
- One of the categories of log: INFO, WARNING, ERROR, PASS, FAIL, INCONC, TIMEOUT
- Free text
- Three asterisks

EXAMPLE 1:

```
log("*** TC_GEONW_PON_LOT_BV_02: INFO: Preamble: Received and answered
Location Service Request ***");
```

Furthermore, the following rules are applied for the Geonetworking ATS:

- Log statements are used in the body of the functions, so that invocation of functions are visible in the test logs
- All TTCN-3 setverdict statement are combined (as defined in TTCN-3 [8]) with a log statement following the same above rules (see example below)

EXAMPLE 2:

```
setverdict(pass, "*** TC_GEONW_FDV_COH_BV_01: PASS: Common Header correctly
formatted ***");
```

6.2.4 Test Case (TC) identifier

Table 4 shows the test case naming convention, which follows the same naming convention as the test purposes.

Table 4: TC naming convention

Identifier: TC_ <root>_<gr>_<sgr>_<x>_<nn></nn></x></sgr></gr></root>		
<root> = root</root>	GEONW	
<gr> = group</gr>	FDV	Formatting and Data Validity
	PON	Protocol Operation
	CAP	Buffer Capacities
	MDE	Media Dependent tests
<sgr> =sub-group</sgr>	СОН	Common Header
	BEA	Beacon
	GUC	GeoUnicast
	GBC	GeoBroadcast
	GAC	GeoAnycast
	SHB	Single-Hop Broadcast
	TSB	Topologically Scoped Broadcast
	LOT	Location Table
	LPV	Local Position Vector
	SQN	Sequence Number
	LOS	Location Service
	FPB	Forwarding Packet Buffer
	GNA	GeoNetworking Address
	LT/TIC	Transmission Interval Control
<x> = type of testing</x>	BV	Valid Behavior tests
	BI	Invalid Syntax or Behavior Tests
<nn> = sequential number</nn>		01 to 99

EXAMPLE: TP identifier: TP/GEONW/FDV/COH/BV/02

TC identifier: TC_GEONW_FDV_COH_BV_02

6.3 On line documentation

Using the T3D tool enables providing on-line documentation browser in HTML, by tagging TTCN-3 comments. These tags are defined in table 5.

Table 5: TTCN-3 comment tags

Tag	Description
@author	Specifies the names of the authors or an authoring organization which either has created or is maintaining a particular piece of TTCN-3 code.
@desc	Describes the purpose of a particular piece of TTCN-3 code. The description should be concise yet informative and describe the function and use of the construct.
@remark	Adds extra information, such as the highlighting of a particular feature or aspect not covered in the description.
@see	Refers to other TTCN-3 definitions in the same or another module.
@return	Provides additional information on the value returned by a given function.
@param	Documents the parameters of parameterized TTCN-3 definitions.
@version	States the version of a particular piece of TTCN-3 code.

The HTML files result from the compilation of the TTCN-3 modules with the T3D tool. These HTML files are ready for browsing, and contain links enabling to navigate through the ATS.

EXAMPLE:

Annex A (normative): TTCN-3 library modules

This ATS has been produced using the Testing and Test Control Notation (TTCN) according to ES 201 873-1 [7].

This test suite has been compiled error-free using three different commercial TTCN-3 compilers.

A.1 Electronic annex, zip file with TTCN-3 code

The TTCN-3 library modules, which form parts of the present technical standard, are contained in the file ts_10287103v010101p_TTCN_GN.zip which is part of the archive ts_10287103v010101p0.zip which accompanies the present document.

A.2 Electronic annex, zip file with HTML documentation

The HTML documentation, which forms parts of the present technical standard, is contained in the file ts_10287103v010101p_T3Doc_GN.zip which is part of the archive ts_10287103v010101p0.zip which accompanies the present document.

Start the index.htm file in any preferred web browser.

Annex B (normative): Partial PIXIT proforma for Geonetworking

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 Partial PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed Partial PIXIT.

The PIXIT Proforma is based on ISO/IEC 9646-6 [4]. Any needed additional information can be found in this international standard document.

B.1 Identification summary

Table B.1

PIXIT Number:	
Test Laboratory Name:	
Date of Issue:	
Issued to:	

B.2 ATS summary

Table B.2

Protocol Specification:	TS 102 636-4-1 [1]
	TS 102 636-4-2 [i.1]
Protocol to be tested:	GEONETW (Geonetworking ITS-G5)
ATS Specification:	TS 102 871-3
Abstract Test Method:	Clause 4

B.3 Test laboratory

Table B.3

Test Laboratory Identification:	
Test Laboratory Manager:	
Means of Testing:	
SAP Address:	

B.4 Client identification

Table B.4

Client Identification:	
Client Test manager:	
Test Facilities required:	

B.5 SUT

Table B.5

Name:	
Version:	
SCS Number:	
Machine configuration:	
Operating System Identification:	
IUT Identification:	
PICS Reference for IUT:	
Limitations of the SUT:	
Environmental Conditions:	

B.6 Protocol layer information

B.6.1 Protocol identification

Table B.6

Name:	TS 102 636-4-1 [1]
	TS 102 636-4-2 [i.1]
Version:	
PICS References:	TS 102 871-1 [i.3]

B.6.2 IUT information

Table B.7: Geonetworking pixits

PX_TS_NODE_A_LOCAL_GN_ADDR Comment GeoNetworking address of the GeoAdno: noture node A Type GN_Address typeOfAddress := e_manual, stationType := e_vehicleStation := (stationType := e_private, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationSubType := e_private, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationType := e_private, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationType := e_private, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationType := e_private, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAddress := e_manual, stationCountyCode := e_ulnt10Zero, mid := e_6ZeroBytes typeOfAdd	Identifier		Description
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Type GN_Address Ppef. Value Opef. Va		•	
Def. value spec/Address := e_manual, stationType := (vehicleStation := (stationType := e_vehicleStation vs/Kind := e_car)		Type	
StationType:= {\perp \perp \text{\perp \text{\			: : : : : : :
{vehicleStation := (stationType := e_vehicleStation vsKind := e_car } } }		Dei. Value	
(stationType := e_vehicleStation vsKind := e_car } }			
vsKind := e_car }			
StationSubType := e_private, stationCountryCode := c_uInt10Zero, mid := c_6ZeroBytes			
StationSubType := e_private, stationCountryCode := c_ulnt10Zero, mid := c_6ZeroBytes			1 -
StationCountryCode := c_uInt10Zero, mid := c_6ZeroBytes PX_TS_NODE_B_LOCAL_GN_ADDR GeoNetworking address of the GeoAdhoc router node B			
mid := c, 62eroBytes			
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GeoAdhoc router node B			
Type GN Address typeOfAddress := e_manual, stationType := (whicleStation := (stationType := e_private, stationCountryCode := c_ulnt10Zero, mid := e_GZeroBytes	PX_IS_NODE_B_LOCAL_GN_ADDR	Comment	
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{\texts(ic) \texts(ic) \texts(i		Def. value	
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vsKind := e_car }			
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StationCountryCode := c_uInt10Zero, mid := c_6ZeroBytes			
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StationCountryCode := c_uInt10Zero, mid := c_6ZeroBytes			},
mid := c_6ZeroBytes			
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vsKind := e_car } }, stationSubType := e_private, stationCountryCode := c_uInt10Zero, mid := c_6ZeroBytes PX_MIN_NR_NEIGHBOUR Comment Nr of neighbour limit to enter the "medium" congestion status value Type Integer Def. value PX_MAX_NR_NEIGHBOUR Comment Nr of neighbour limit to enter the "maximum" congestion status value Type Integer Def. value Type Integer Def. value Type Integer Def. value Type Integer Def. value Type Untager Def. value Type Untager Def. value Untager Def. value Type Ulnt32			
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stationSubType := e_private, stationCountryCode := c_uInt10Zero, mid := c_6ZeroBytes PX_MIN_NR_NEIGHBOUR Comment Nr of neighbour limit to enter the "medium" congestion status value Type Integer			
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PX_DISTANCE_UNIT Comment Number of 1/10 micro degrees in one unit of distance Type UInt32			
unit of distance Type UInt32			
Type UInt32	PX_DISTANCE_UNIT	Comment	
		_	
Def. value 10 000			
		Def. value	10 000

Identifier		Description
PX_T_DELTA	Comment	Delta for timers to reflect processing time
	Туре	float
	Def. value	0,1
PX_GN_BEACON_SERVICE_TIMER_MEDIUM	Comment	Duration of Beacon service retransmit timer [ms] for NetBeaconInterval = medium (cong. ctrl)
	Туре	integer
	Def. value	5 000
PX_GN_BEACON_SERVICE_TIMER_MAXIMUM	Comment	Duration of Beacon service retransmit timer [ms] for NetBeaconInterval = maximum (cong. ctrl)
	Туре	integer
	Def. value	8 000
PX_GN_LOCATION_SERVICE_TIMER_MEDIUM	Comment	Duration of Location service retransmit timer [ms] for NetRepInterval = medium (cong. ctrl)
	Туре	integer
	Def. value	2 000
PX_GN_LOCATION_SERVICE_TIMER_MAXIMUM	Comment	Duration of Location service retransmit timer [ms] for NetRepInterval = maximum (cong. ctrl)
	Туре	integer
	Def. value	3 000
PX_GN_APPLICATION_RETRANSMIT_TIMER	Comment	Duration of Application retransmit timer [ms]
	Туре	integer
	Def. value	1 000
PX_GN_APPLICATION_RETRANSMIT_TIMER_MEDIUM	Comment	Duration of Application retransmit timer [ms] - medium
	Туре	integer
	Def. value	2 000
PX_GN_APPLICATION_RETRANSMIT_TIMER_MAXIMUM	Comment	Duration of Application retransmit timer [ms] - maximum
	Туре	integer
	Def. value	3 000
PX_POS_DELTA	Comment	The allowed delta for position checking.
	Туре	integer
	Def. value	1
PX_GN_APPLICATION_MAX_RETRANS	Comment	Maximum number of application retransmissions
	Туре	Integer
	Def. value	10

Annex C (normative): PCTR Proforma for Geonetworking

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 [4]. Any needed additional information can be found in this International standard document.

C.1 Identification summary

C.1.1 Protocol conformance test report

Table C.1

PCTR Number:	
PCTR Date:	
Corresponding SCTR Number:	
Corresponding SCTR Date:	
Test Laboratory Identification:	
Test Laboratory Manager:	
Signature:	

C.1.2 IUT identification

Table C.2

Name:	
Version:	
Protocol specification:	
PICS:	
Previous PCTR if any:	

C.1.3 Testing environment

Table C.3

PIXIT Number:	
ATS Specification:	
Abstract Test Method:	
Means of Testing identification:	
Date of testing:	
Conformance Log reference(s):	
Retention Date for Log reference(s):	

C.1.4 Limits and reservation

Additional information relevant to the technical contents of 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 report.	e
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.	
Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for	
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.	•••
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.	
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 in the present document) and there are no "FAIL" verdicts to be recorded (in clause C.6 in the present document) 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 of the present document) strike the words "did or" otherwise strike the words "or did not". Summary of the results of groups of test: 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: test cases

ATS Reference	Selected?	Run?	Verdict	Observations
				(Reference to any observations made in clause C.7)
TC_GEONW_FDV_COH_BV_01	Yes/No	Yes/No		
TC_GEONW_FDV_COH_BV_02	Yes/No	Yes/No		
TC_GEONW_FDV_COH_BV_03	Yes/No	Yes/No		
TC_GEONW_FDV_COH_BV_04	Yes/No	Yes/No		
TC_GEONW_FDV_COH_BV_05	Yes/No	Yes/No		
TC_GEONW_FDV_COH_BV_06	Yes/No	Yes/No		
TC_GEONW_FDV_BEA_BV_01	Yes/No	Yes/No		
TC_GEONW_FDV_GUC_BV_01	Yes/No	Yes/No		
TC_GEONW_FDV_GBC_BV_01	Yes/No	Yes/No		
TC_GEONW_FDV_GAC_BV_01	Yes/No	Yes/No		
TC_GEONW_FDV_SHB_BV_01	Yes/No	Yes/No		
TC_GEONW_FDV_TSB_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_LOT_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_LOT_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_LOT_BV_03	Yes/No	Yes/No		
TC_GEONW_PON_LOT_BV_04	Yes/No	Yes/No		
TC_GEONW_PON_LOT_BV_05	Yes/No	Yes/No		
TC_GEONW_PON_LPV_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_SQN_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_SQN_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_LOS_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_LOS_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_LOS_BV_03	Yes/No	Yes/No		
TC_GEONW_PON_LOS_BV_04 TC_GEONW_PON_LOS_BV_05	Yes/No	Yes/No		
TC_GEONW_PON_LOS_BV_05 TC GEONW PON LOS BV 06	Yes/No Yes/No	Yes/No		
TC GEONW_PON_LOS_BV_06 TC GEONW PON LOS BV 07	Yes/No	Yes/No Yes/No		
TC_GEONW_PON_LOS_BV_07 TC_GEONW_PON_LOS_BV_08	Yes/No	Yes/No		
TC GEONW_PON_LOS_BV_08 TC GEONW PON LOS BV 09	Yes/No	Yes/No		
TC GEONW_FON_LOS_BV_09	Yes/No	Yes/No		
TC GEONW_FON_LOS_BV_10	Yes/No	Yes/No		
TC GEONW PON LOS BV 12	Yes/No	Yes/No		
TC_GEONW_PON_LOS_BV_13	Yes/No	Yes/No		
TC_GEONW_PON_FPB_BV_01	Yes/No	Yes/No		
TC GEONW PON FPB BV 02	Yes/No	Yes/No		
TC GEONW PON FPB BV 03	Yes/No	Yes/No		
TC GEONW PON FPB BV 04	Yes/No	Yes/No		
TC_GEONW_PON_FPB_BV_05	Yes/No	Yes/No		
TC GEONW PON FPB BV 06	Yes/No	Yes/No		
TC_GEONW_PON_FPB_BV_07	Yes/No	Yes/No		
TC_GEONW_PON_FPB_BV_08	Yes/No	Yes/No		
TC GEONW PON FPB BV 09	Yes/No	Yes/No		
TC_GEONW_PON_FPB_BV_10	Yes/No	Yes/No		
TC_GEONW_PON_GNA_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_GNA_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_BEA_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_BEA_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_03	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_04	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_05	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_06	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_07	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_08	Yes/No	Yes/No		
TC_GEONW_PON_GUC_BV_08	Yes/No	Yes/No		

(Reference to any observations made in clause C.7) TC GEONW PON GBC BV .01 TC GEONW PON GBC BV .02 TC GEONW PON GBC BV .03 TC GEONW PON GBC BV .03 TC GEONW PON GBC BV .03 TC GEONW PON GBC BV .04 Yes/No Yes/No Yes/No Yes/No Yes/No TC GEONW PON GBC BV .06 Yes/No Yes/No TC GEONW PON GBC BV .06 Yes/No TC GEONW PON GBC BV .06 Yes/No Yes/No TC GEONW PON GBC BV .07 TC GEONW PON GBC BV .07 TC GEONW PON GBC BV .08 Yes/No TC GEONW PON GBC BV .08 Yes/No TC GEONW PON GBC BV .09 Yes/No TC GEONW PON GBC BV .10 TC GEONW PON GBC BV .11 Yes/No TC GEONW PON GBC BV .12 Yes/No TC GEONW PON GBC BV .13 Yes/No Yes/No TC GEONW PON GBC BV .13 Yes/No Yes/No TC GEONW PON GBC BV .14 Yes/No Yes/No TC GEONW PON GBC BV .14 Yes/No Yes/No TC GEONW PON GBC BV .14 Yes/No Yes/No TC GEONW PON GBC BV .15 Yes/No TC GEONW PON TSB BV .01 Yes/No TC GEONW PON TSB BV .02 Yes/No TC GEONW PON TSB BV .02 Yes/No TC GEONW PON TSB BV .03 Yes/No TC GEONW PON TSB BV .03 Yes/No TC GEONW PON TSB BV .03 Yes/No TC GEONW PON TSB BV .04 Yes/No TC GEONW PON TSB BV .05 TC GEONW PON TSB BV .06 Yes/No TC GEONW PON TSB BV .06 Yes/No TC GEONW PON TSB BV .07 Yes/No TC GEONW PON TSB BV .08 Yes/No TC GEONW PON TSB BV .09 Yes/No TC GEONW PON TSB BV .00 Yes/No Yes/No TC GEONW PON TSB BV .00 Yes/No Yes/No TC GEONW PON TSB BV .00 Yes/No Yes/No TC GEONW PON TSB BV .01 Yes/No Yes/No TC GEONW PON TSB BV .02 Yes/No Yes/No TC GEONW PON TSB BV .03 Yes/No Yes/No TC GEONW PON TSB BV .04 Yes/No Yes/No TC GEONW PON TSB BV .05 Yes/No TC GEONW PON TSB BV .06 Yes/No Yes/No TC GEONW P	ATS Reference	Selected?	Run?	Verdict	Observations
TC_GEONW_PON_GBC_BV_02		00.00.00.		1014101	
TC GEONW PON GBC BV 01					observations made
TC_GEONW_PON_GBC_BV_02 TC_GEONW_PON_GBC_BV_03 TC_GEONW_PON_GBC_BV_04 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_10 TC_GEONW_PON_GBC_BV_10 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_13 TC_GEONW_PON_GBC_BV_14 TC_GEONW_PON_GBC_BV_14 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_GBC_BV_16 TC_GEONW_PON_GBC_BV_16 TC_GEONW_PON_GBC_BV_17 TC_GEONW_PON_GBC_BV_16 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_02 TC_GEONW_PON_TSB_BV_03 TC_GEONW_PON_TSB_BV_04 TC_GEONW_PON_TSB_BV_04 TC_GEONW_PON_TSB_BV_05 TC_GEONW_PON_TSB_BV_06 TC_GEONW_PON_TSB_BV_07 TC_GEONW_PON_TSB_BV_07 TC_GEONW_PON_TSB_BV_07 TC_GEONW_PON_TSB_BV_08 TC_GEONW_PON_TSB_BV_08 TC_GEONW_PON_TSB_BV_09 TC_GEONW_PON_TSB_BV_09 TC_GEONW_PON_TSB_BV_01					in clause C.7)
TC_GEONW_PON_GBC_BV_04 TC_GEONW_PON_GBC_BV_04 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_109 TC_GEONW_PON_GBC_BV_101 TC_GEONW_PON_GBC_BV_111 TC_GEONW_PON_GBC_BV_111 TC_GEONW_PON_GBC_BV_111 TC_GEONW_PON_GBC_BV_111 TC_GEONW_PON_GBC_BV_112 TC_GEONW_PON_GBC_BV_112 TC_GEONW_PON_GBC_BV_114 TC_GEONW_PON_GBC_BV_114 TC_GEONW_PON_GBC_BV_114 TC_GEONW_PON_GBC_BV_115 TC_GEONW_PON_GBC_BV_115 TC_GEONW_PON_GBC_BV_115 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_TBB_BV_011 TC_GEONW_PON_TBB_BV_02 TC_GEONW_PON_TBB_BV_03 TC_GEONW_PON_TBB_BV_03 TC_GEONW_PON_TBB_BV_05 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_01 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_06 TC_GEONW_PON_TBB_BV_07 TC_GEONW_PON_GAC_BV_08 TC_GEONW_PON_GAC_BV_08 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_07 TC_GEONW_PON_GAC_BV_08 TC_GEONW_PON_GAC_BV_08 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_07 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_06 TC_GEONW_PON_GAC_BV_07 TC_GEON		Yes/No	Yes/No		
TC_GEONW_PON_GBC_BV_04 TC_GEONW_PON_GBC_BV_05 TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_10 TC_GEONW_PON_GBC_BV_10 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_13 TC_GEONW_PON_GBC_BV_13 TC_GEONW_PON_GBC_BV_14 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_02 TC_GEONW_PON_TSB_BV_02 TC_GEONW_PON_TSB_BV_03 TC_GEONW_PON_TSB_BV_04 TC_GEONW_PON_TSB_BV_05 TC_GEONW_PON_TSB_BV_06		Yes/No			
TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_10 TC_GEONW_PON_GBC_BV_110 TC_GEONW_PON_GBC_BV_110 TC_GEONW_PON_GBC_BV_111 TYES/N0 TC_GEONW_PON_GBC_BV_111 TYES/N0 TC_GEONW_PON_GBC_BV_111 TYES/N0 TC_GEONW_PON_GBC_BV_113 TC_GEONW_PON_GBC_BV_113 TC_GEONW_PON_GBC_BV_113 TC_GEONW_PON_GBC_BV_14 TYES/N0 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_02 TC_GEONW_PON_TSB_BV_03 TC_GEONW_PON_TSB_BV_04 TC_GEONW_PON_TSB_BV_04 TC_GEONW_PON_TSB_BV_05 TC_GEONW_PON_TSB_BV_06 TYES/N0 TC_GEONW_PON_TSB_BV_06 TYES/N0 TC_GEONW_PON_TSB_BV_07 TYES/N0 TC_GEONW_PON_TSB_BV_06 TYES/N0 TC_GEONW_PON_TSB_BV_07 TYES/N0 TC_GEONW_PON_TSB_BV_06 TC_GEONW_PON_TSB_BV_07 TYES/N0 TYES/N0 TC_GEONW_PON_TSB_BV_07 TYES/N0 TYES/N0 TC_GEONW_PON_TSB_BV_07 TYES/N0 TYES/N0 TC_GEONW_PON_TSB_BV_07 TYES/N0 TYES/N0 TC_GEONW_PON_TSB_TSD_TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		Yes/No			
TC_GEONW_PON_GBC_BV_06 TC_GEONW_PON_GBC_BV_07 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_08 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_09 TC_GEONW_PON_GBC_BV_109 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_11 TC_GEONW_PON_GBC_BV_12 TC_GEONW_PON_GBC_BV_13 TC_GEONW_PON_GBC_BV_14 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_GBC_BV_15 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSB_BV_03 TC_GEONW_PON_TSB_BV_03 TC_GEONW_PON_TSB_BV_04 TC_GEONW_PON_TSB_BV_06 TC_GEONW_PON_TSB_BV_07 TC_GEONW_PON_TSB_BV_07 TC_GEONW_PON_TSB_BV_08 TC_GEONW_PON_TSB_BV_09 TC_GEONW_PON_TSB_BV_09 TC_GEONW_PON_TSB_BV_01 TC_GEONW_PON_TSD_TSD_TSD_TSD_TSD_TSD_TSD_TSD_TSD_TSD		Yes/No	Yes/No		
TC_GEONW_PON_GBC_BV_07		Yes/No	Yes/No		
TC GEONW PON GBC BV 08		Yes/No	Yes/No		
TC GEONW PON GBC BV 09		Yes/No			
TC_GEONW_PON_GBC_BV_10					
TC_GEONW_PON_GBC_BV_11		Yes/No			
TC_GEONW_PON_GBC_BV_12		Yes/No	Yes/No		
TC_GEONW_PON_GBC_BV_13		Yes/No	Yes/No		
TC_GEONW_PON_GBC_BV_14		Yes/No	Yes/No		
TC_GEONW_PON_GBC_BV_15	TC_GEONW_PON_GBC_BV_13	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_01	TC_GEONW_PON_GBC_BV_14	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_02	TC_GEONW_PON_GBC_BV_15	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_03 Yes/No Yes/No TC_GEONW_PON_TSB_BV_04 Yes/No Yes/No TC_GEONW_PON_TSB_BV_05 Yes/No Yes/No TC_GEONW_PON_TSB_BV_06 Yes/No Yes/No TC_GEONW_PON_TSB_BV_07 Yes/No Yes/No TC_GEONW_PON_SHB_BV_01 Yes/No Yes/No TC_GEONW_PON_SHB_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No	TC_GEONW_PON_TSB_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_04	TC_GEONW_PON_TSB_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_05	TC_GEONW_PON_TSB_BV_03	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_06 Yes/No Yes/No TC_GEONW_PON_TSB_BV_07 Yes/No Yes/No TC_GEONW_PON_SHB_BV_01 Yes/No Yes/No TC_GEONW_PON_SHB_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_04 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No	TC_GEONW_PON_TSB_BV_04	Yes/No	Yes/No		
TC_GEONW_PON_TSB_BV_07 Yes/No Yes/No TC_GEONW_PON_SHB_BV_01 Yes/No Yes/No TC_GEONW_PON_SHB_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_04 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_07 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No	TC_GEONW_PON_TSB_BV_05	Yes/No	Yes/No		
TC_GEONW_PON_SHB_BV_01	TC_GEONW_PON_TSB_BV_06	Yes/No	Yes/No		
TC_GEONW_PON_SHB_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_04 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_07 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No	TC_GEONW_PON_TSB_BV_07	Yes/No	Yes/No		
TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_02 Yes/No Yes/No TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_04 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_07 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_PON_GAC_BV_01 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No </td <td>TC_GEONW_PON_SHB_BV_01</td> <td>Yes/No</td> <td>Yes/No</td> <td></td> <td></td>	TC_GEONW_PON_SHB_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_GAC_BV_02	TC_GEONW_PON_SHB_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_GAC_BV_03 Yes/No Yes/No TC_GEONW_PON_GAC_BV_04 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_07 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No	TC_GEONW_PON_GAC_BV_01	Yes/No	Yes/No		
TC_GEONW_PON_GAC_BV_04 Yes/No Yes/No TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_07 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No <td>TC_GEONW_PON_GAC_BV_02</td> <td>Yes/No</td> <td>Yes/No</td> <td></td> <td></td>	TC_GEONW_PON_GAC_BV_02	Yes/No	Yes/No		
TC_GEONW_PON_GAC_BV_05 Yes/No Yes/No TC_GEONW_PON_GAC_BV_06 Yes/No Yes/No TC_GEONW_PON_GAC_BV_07 Yes/No Yes/No TC_GEONW_PON_GAC_BV_08 Yes/No Yes/No TC_GEONW_PON_GAC_BV_09 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_PON_GAC_BV_10 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_LOS_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_01 Yes/No Yes/No TC_GEONW_CAP_FPB_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No	TC_GEONW_PON_GAC_BV_03	Yes/No	Yes/No		
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TC_GEONW_CAP_FPB_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No	TC GEONW CAP LOS BV 01	Yes/No	Yes/No		
TC_GEONW_MDE_LT_TIC_BV_01 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No	TC GEONW_CAP_FPB_BV_01	Yes/No	Yes/No		
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TC_GEONW_MDE_LT_TIC_BV_02 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					
TC_GEONW_MDE_LT_TIC_BV_03 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					
TC_GEONW_MDE_LT_TIC_BV_04 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					
TC_GEONW_MDE_LT_TIC_BV_05 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					
TC_GEONW_MDE_LT_TIC_BV_06 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					
TC_GEONW_MDE_LT_TIC_BV_07 Yes/No Yes/No TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					
TC_GEONW_MDE_LT_TIC_BV_08 Yes/No Yes/No					

C.7	Observations
	information relevant to the technical content of the PCTR is given here.

History

Document history			
V1.1.1	June 2011	Publication	