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Keywords

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Contents

Intelle	ectual Property Rights	4
Forew	/ord	4
1	Scope	5
2	References	5
2.1 2.2	Normative references Informative references	5 5
3	Abbreviations	5
4	Introduction	5
5 5.1	Content Release 1 General standards	6
5.2 5.3 5.4	Application requirements Facilities Network and Transport	6 7 8
5.5 5.6 5.7	Access and media Management	11
Histor	y	14

3

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Intelligent Transport System (ITS).

1 Scope

The present document identifies the documents that form Release 1 of Cooperative ITS (C-ITS).

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 reference document (including any amendments) applies.

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2.1 Normative references

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

Not applicable.

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] European Commission (M/453): "Standardisation mandate addressed to CEN, CENELEC and ETSI in the field of Information and Communication Technologies to support the interoperability of Co-operative systems for Intelligent Transport in the European Community of 06 October 2009".

3 Abbreviations

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

C-ITS	Cooperative ITS
DCC	Decentralized Congestion Control
DSRC	Dedicated Short Range Communication
EFC	Electronic Fee Collection
ITS	Intelligent Transport Systems
V2I	Vehicle-to-Infrastructure
V2V	Vehicle-to-Vehicle

4 Introduction

For the development of standards which address Cooperative Intelligent Transport Systems (C-ITS) a release oriented process has been adopted.

The present document lists standards, specifications and other deliverables which have been developed to form a consistent set of standards as the basis for Release 1 including standards for interoperability developed in accordance with the work plan of the European Commission Standardisation Mandate M/453 [i.1].

Since Mandate M/453 [i.1] expects such a consistent set of standards the present document aims at facilitating the identification of these standards, hence providing guidance to implementation.

The deliverables forming Release 1 are synchronized and harmonized with similar documents prepared by other Standards Developing Organizations such as ISO/CEN, IEEE and SAE. The present document also serves as basis for defining further standardization activities which will lead to forming the Release 2 of standards related to Cooperative ITS.

5 Content Release 1

The deliverables forming Release 1 are based on a list of features required for deployment of Cooperative ITS. The following standards developed for interoperability in particular related to Mandate M/453 [i.1] address this deployment.

5.1 General standards

Standards developed for defining base requirements and procedures.

Table 1: General Standard

Standard title	Standard number
Intelligent Transport Systems (ITS);	ETSLEN 302 665 V/1 1 1
Communications Architecture	ETSI EN 302 003 V1.1.1
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 102 731 V1.1.1
Security Services and Architecture	
Intelligent Transport System (ITS);	
Users and applications requirements;	ETSI TS 102 894-1 V1.1.1
Part 1: Facility layer structure, functional requirements and specifications	
Intelligent Transport Systems (ITS);	
Users and applications requirements;	ETSI TS 102 894-2 V1.1.1
Applications and facilities layer common data dictionary	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI TS 102 636-3 V1.1.1
Part 3: Network architecture	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI EN 302 636-3 V1.2.1
Part 3: Network Architecture	
Intelligent Transport Systems (ITS);	
Testing;	ETSI EG 202 798 V1.1.1
Framework for conformance and interoperability testing	
Intelligent Transport Systems (ITS);	ETSI TR 102 962 V/1 1 1
Framework for Public Mobile Networks in Cooperative ITS (C-ITS)	

5.2 Application requirements

Standards developed for Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) message sets and applications covering both safety and traffic efficiency applications as well as Value Added Services and other comfort applications.

The application and facility layer standards are based on the following general ITS features:

- Vehicle safety:
 - driver assistance information;
 - driver assistance warning;
 - electric vehicles.

Standard title	Standard number
Intelligent Transport Systems (ITS); V2X Application; Part 1: Road Hazard Signalling (RHS) application requirements specification	ETSI TS 101 539-1 V1.1.1
Intelligent Transport System (ITS); V2X Application; Intersection Collision Risk Warning Specification	ETSI TS 101 539-2 V1.1.1
Intelligent Transport Systems (ITS); V2X Application; Longitudinal Collision Risk Warning Specification	ETSI TS 101 539-3 V1.1.1
Intelligent Transport Systems (ITS); Infrastructure to Vehicle Communication; Electric Vehicle Charging Spot Notification Specification	ETSI TS 101 556-1 V1.1.1
Intelligent Transport Systems (ITS); Infrastructure to Vehicle Communication; Communication system specification to support application requirements for Tyre Pressure Monitoring System (TPMS)	ETSI TS 101 556-2 V1.1.1
Intelligent Transport Systems (ITS); Infrastructure to Vehicle Communications; Communications system for the planning and reservation of EV energy supply using wireless networks	ETSI TS 101 556-3 V1.1.1
Intelligent Transport Systems (ITS); Vehicular Communications; Basic Set of Applications; Definitions	ETSI TR 102 638 V1.1.1

Table 2: Standards for application requirements

5.3 Facilities

Facility layer standards include general message set standards and application supporting standards primarily for V2V and V2I communications.

Standard title	Standard number
Intelligent Transport Systems (ITS);	
Vehicular Communications;	ETSI TS 102 627 2 1/1 2 1
Basic Set of Applications;	E13113 102 037-2 V1.2.1
Part 2: Specification of Cooperative Awareness Basic Service	
Intelligent Transport Systems (ITS);	
Vehicular Communications;	ETSI EN 202 627 2 1/1 2 1
Basic Set of Applications;	ETSI EN 302 037-2 V1.3.1
Part 2: Specification of Cooperative Awareness Basic Service	
Intelligent Transport Systems (ITS);	
Vehicular Communications;	ETSI TS 102 637-3 \/1 1 1
Basic Set of Applications;	
Part 3: Specifications of Decentralized Environmental Notification Basic Service	
Intelligent Transport Systems (ITS);	
Vehicular Communications;	ETSI EN 302 637-3 V/1 2 1
Basic Set of Applications;	
Part 3: Specifications of Decentralized Environmental Notification Basic Service	
Intelligent Transport Systems (ITS);	
Vehicular Communications;	ETSI EN 302 895 V/1 1 1
Basic Set of Applications;	
Local Dynamic Map (LDM) Specification	
Intelligent Transport System (ITS);	
Facilities layer function;	ETSI TS 102 890-3 V1.1.1
Position and time facility specification	

Testing Standard title	Standard number
Intelligent Transport Systems (ITS);	
Testing;	
Conformance test specification for Co-operative Awareness Messages (CAM);	ETSI TS 102 868-1 V1.1.1
Part 1: Test requirements and Protocol Implementation Conformance Statement	
(PICS) proforma	
Intelligent Transport Systems (ITS);	
Testing;	ETSI TS 102 868-2 V1.1.1
Conformance test specification for Co-operative Awareness Messages (CAM);	
Part 2: Test Suite Structure and Test Purposes (TSS&TP)	
Intelligent Transport Systems (ITS);	
Testing;	
Conformance test specification for Co-operative Awareness Messages (CAM);	ETSETS 102 868-3 V1.1.1
Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for	
Intelligent Transport Systems (ITS);	
Conformance test energification for Decentralized Environmental Natification	
Messages (DENM):	ETSI TS 102 869-1 V1.1.1
INESsayes (DEININ),	
(PICS) proforma	
Intelligent Transport Systems (ITS):	
Testing;	
Conformance test specification for Decentralized Environmental Notification	ETSI TS 102 869-2 V1.1.1
Messages (DENM);	
Part 2: Test Suite Structure and Test Purposes (TSS&TP)	
Intelligent Transport Systems (ITS);	
Testing;	
Conformance test specification for Decentralized Environmental Notification	
Messages (DENM);	E13113 102 009-3 V1.1.1
Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for	
Testing (PIXIT)	
Intelligent Transport Systems (ITS);	
Testing;	
Part 1: Conformance test specification for Co-operative Awareness Messages	ETSI TR 103 061-1 V1.1.1
(CAM);	
CAM validation report	
Intelligent Transport Systems (ITS);	
Testing;	
Part 2: Conformance test specification for Decentralized Environmental Notification	ETSI TR 103 061-2 V1.1.1
basic Service Message (DENM);	
DENM validation report	

Table 4: Testing standards for facility layer functionalities

5.4 Network and Transport

Standards for the network and transport layer related to protocols such as:

- basic transport protocols;
- geoNetworking;
- IPv6.

Standard title	Standard number
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI TS 102 636-1 V1.1.1
Part 1: Requirements	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI EN 302 636-1 V1.2.1
Part 1: Requirements	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI TS 102 636-2 V1.1.1
Part 2: Scenarios	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI EN 302 636-2 V1.2.1
Part 2: Scenarios	
Intelligent Transport System (ITS);	
Vehicular communications; GeoNetworking;	
Part 4: Geographical addressing and forwarding for point-to-point and	ETSI TS 102 636-4-1 V1.1.1
point-to-multipoint communications;	
Sub-part 1: Media-Independent Functionality	
Intelligent Transport System (ITS);	
Vehicular communications; GeoNetworking;	
Part 4: Geographical addressing and forwarding for point-to-point and	ETSI EN 302 636-4-1 V1.2.1
point-to-multipoint communications;	
Sub-part 1: Media-Independent Functionality	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	
Part 4: Geographical addressing and forwarding for point-to-point and	ETSI TS 102 636-4-2 V1.1.1
point-to-multipoint communications;	
Sub-part 2: Media dependent functionalities for ITS-G5A media	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI TS 102 636-5-1 V1.1.1
Part 5: Transport Protocols;	
Sub-part 1: Basic Transport Protocol	
Intelligent Transport Systems (ITS);	
Vehicular Communications; GeoNetworking;	ETSI EN 302 636-5-1 V1.2.1
Part 5: Transport Protocols;	
Sub-part 1: Basic Transport Protocol	
Intelligent Transport Systems (ITS);	
venicular Communications; GeolNetworking;	ETSI TS 102 636-6-1 V1.1.1
Part 6: Internet Integration;	
Sub-part 1: Transmission of IPV6 Packets over Geoinetworking Protocols	
Intelligent Transport Systems (TTS);	
venicular Communications; GeolNetworking;	ETSI EN 302 636-6-1 V1.2.1
Part 6: Internet Integration;	
Sub-part 1: Transmission of IPv6 Packets over GeoNetworking Protocols	

Table 5: Base standards for the network and transport layer

Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking Basic Transport Protocol (BTP); Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking Basic Transport Protocol (BTP); Part 2: Test Suite Structure and Test Purposes (TSS&TP) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Geonetworking Basic Transport Protocol (BTP); Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXT) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 2: Test Stute Structure and Test Purposes (TSS&TP) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 3: Abstract Test Stute (ATS) and Protocol Implementation eXtra Information for Testing (PIXT) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 3: Abstract Test Stute (ATS) and Protocol Implementation eXtra Information for Testing (PIXT) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 2: Test Stute Structure and Test Purposes (TSS&TP) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXT) Intelligent Transport Systems (ITS); Testing; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXT) Intelligent Transport Systems (ITS); Testing; Part 4: Conformance test specifications for Trans	Testing Standard title	Standard number
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Information for Testing (PIXIT) ETSI Transport Systems (TTS); Testing; Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-1 V1.1.1 Part 1: Test requirements and Protocol Implementation Conformance ETSI TS 102 871-1 V1.1.1 Intelligent Transport Systems (TTS); ETSI TS 102 871-2 V1.1.1 Part 2: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 871-3 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over ETSI TS 102 859-1 V1.1.1 Restargent (PICS) proforma ETSI TS 102 859-2 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over ETSI TS 102 859-3 V1.1.1 Restargent (PICS) proforma ETSI TS 102 859-3 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 859-3 V1.1.1 Part 3: test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 859-3 V1.1.1 Part 3: Conformance test specification for Geographical addressing and for	Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra	
Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-1 V1.1.1 Part 1: Test requirements and Protocol Implementation Conformance ETSI TS 102 871-2 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-2 V1.1.1 Part 2: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 871-3 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra ETSI TS 102 871-3 V1.1.1 Intelligent Transport Systems (ITS); Test requirements and Protocol Implementation Conformance Statement (PICS) proforma ETSI TS 102 859-1 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 859-2 V1.1.1 GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma ETSI TS 102 859-3 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 859-3 V1.1.1 GeoNetworking; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) ETSI TS 102 859-3 V1.1.1 <tr< td=""><td>Information for Testing (PIXIT)</td><td></td></tr<>	Information for Testing (PIXIT)	
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Conformance test specifications for GeoNetworking ITS-G5; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proformaETSI TS 102 871-1 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 2: Test Suite Structure and Test Purposes (TSS&TP)ETSI TS 102 871-2 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proformaETSI TS 102 859-1 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 2: Test Suite Structure and Test Purposes (TSS&TP)ETSI TS 102 859-2 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Test Suite Structure and Test Purposes (TSS&TP)ETSI TS 102 859-2 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Conformance test specification for Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; GeoNetworking validation reportETSI TR 103 061-3 V1.1.1Intelligent Transport Systems (ITS); Testing; Part 4: Conformance test specification for GeoNetworking Basic Transport Protocol (BTP); GeoNetworking ET validation reportETSI TR 103 061-4 V1.1.1Intelli	Testing;	
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Statement (PICS) proforma ETSI TS 102 871-2 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 871-2 V1.1.1 Part 2: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 871-2 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 871-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); ETSI TS 102 871-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra ETSI TS 102 871-3 V1.1.1 Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Conformance test specifications for Transmission of IP packets over ETSI TS 102 859-1 V1.1.1 Statement (PICS) proforma ETSI TS 102 859-2 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over ETSI TS 102 859-2 V1.1.1 GeoNetworking; Part 3: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 859-3 V1.1.1 Intelligent Transport Systems (ITS); Testing; ETSI TS 102 859-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); ETSI TR 103 061-3 V1.1.1 Part 3: C	Part 1: Test requirements and Protocol Implementation Conformance	
Intelligent Transport Systems (ITS); ETSI TS 102 871-2 V1.1.1 Testing; ETSI TS 102 871-2 V1.1.1 Part 2: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 871-2 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 871-3 V1.1.1 Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); ETSI TS 102 859-1 V1.1.1 Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma ETSI TS 102 859-2 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 859-2 V1.1.1 Reat 2: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 859-3 V1.1.1 Intelligent Transport Systems (ITS); ETSI TS 102 859-3 V1.1.1 Reat 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra ETSI TS 102 859-3 V1.1.1 Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; ETSI TS 102 859-3 V1.1.1 Part 3: Conformance test specification for Geographical addressing and forwarding origo point-to-point and point-to-multipoint communicat	Statement (PICS) protorma	
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Part 2: Test Suite Structure and Test Purposes (TSS&TP) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for GeoNetworking ITS-G5; Part 3: Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Test Suite Structure and Test Purposes (TSS&TP) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; Part 3: Conformance test specification for Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; GeoNetworking validation report Intelligent Transport Systems (ITS); Testing; Part 3: Conformance test specification for Geographical addressing and forwarding	Conformance test specifications for GeoNetworking ITS-G5	ETSI TS 102 871-2 V1.1.1
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Testing; Conformance test specifications for GeoNetworking ITS-G5; ETSI TS 102 871-3 V1.1.1 Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over ETSI TS 102 859-1 V1.1.1 GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over ETSI TS 102 859-3 V1.1.1 GeoNetworking; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; Conformance test specification for Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; ETSI TR 103 061-3 V1.1.1 Intelligent Transport Systems (ITS); Testing; ETSI TR 103 061-4 V1.1.1 Intelligent Transport Systems (ITS); ETSI TR 103 061-5 V1.1.1 Part 4: Conformance t	Intelligent Transport Systems (ITS);	
Conformance test specifications for GeoNetworking ITS-G5; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)ETSI TS 102 871-3 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 2: Test Suite Structure and Test Purposes (TSS&TP)ETSI TS 102 859-1 V1.1.1Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) Intelligent Transport Systems (ITS); Testing; Conformance test specification for Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; GeoNetworking validation reportETSI TR 103 061-3 V1.1.1Intelligent Transport Systems (ITS); Testing; Part 3: Conformance test specification for Geosteworking Basic Transport Part 4: Conformance test specification for GeoNetworking Basic Transport Protocol (BTP); GeoNetworking BTP validation report Intelligent Transport Systems (ITS); Testing; Part 4: Conformance test specification for GeoNetworking Basic Transport Protocol (BTP); GeoNetworking BTP validation reportETSI TR 103 061-5 V1.1.1	Testing;	
Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) ETSI TS 102 859-1 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma ETSI TS 102 859-1 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 2: Test Suite Structure and Test Purposes (TSS&TP) ETSI TS 102 859-2 V1.1.1 Intelligent Transport Systems (ITS); Testing; Conformance test specifications for Transmission of IP packets over GeoNetworking; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) ETSI TS 102 859-3 V1.1.1 Intelligent Transport Systems (ITS); Testing; Part 3: Conformance test specification for Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; GeoNetworking validation report Intelligent Transport Systems (ITS); Testing; Part 4: Conformance test specification for GeoNetworking Basic Transport Protocol (BTP); GeoNetworking BTP validation report ETSI TR 103 061-4 V1.1.1 Intelligent Transport Systems (ITS); Testing; ETSI TR 103 061-5 V1.1.1	Conformance test specifications for GeoNetworking ITS-G5;	ETSI TS 102 871-3 V1.1.1
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real of the over (regiver working validation report	Part 5: IPv6 over GeoNetworking validation report	ETSI IK 103 001-3 V1.1.1

Table 6: Testing st	tandards for the	network and	transport	layer

5.5 Access and media

Standards developed for the access and media layer are based on features such as

- 5,9 GHz spectrum usage;
- multichannel operation;
- Decentralized Congestion Control (DCC);
- coexistence of ITS and EFC (CEN DSRC) services in the 5,8 GHz and 5,9 GHz bands.

Table 7: Base standards for the access and media layer

11

Standard title	Standard number
Intelligent Transport Systems (ITS); European profile standard for the physical and medium access control layer of	ETSI ES 202 663 V1.1.0
Intelligent Transport Systems operating in the 5 GHz frequency band Intelligent Transport Systems (ITS);	
Access layer specification for Intelligent Transport Systems operating in the 5 GHz frequency band	ETSI EN 302 663 V1.2.1
Intelligent Transport Systems (ITS); Decentralized Congestion Control Mechanisms for Intelligent Transport Systems operating in the 5 GHz range; Access layer part	ETSI TS 102 687 V1.1.1
Intelligent Transport Systems (ITS); Mitigation techniques to avoid interference between European CEN Dedicated Short Range Communication (CEN DSRC) equipment and Intelligent Transport Systems (ITS) operating in the 5 GHz frequency range	ETSI TS 102 792 V1.1.1
Intelligent Transport Systems (ITS); Harmonized Channel Specifications for Intelligent Transport Systems operating in the 5 GHz frequency band	ETSI TS 102 724 V1.1.1

Table 8: Testing standards for the access and media layer

Testing Standard title	Standard number
Intelligent Transport Systems (ITS); Test specifications for the channel congestion control algorithms operating in the 5,9 GHz range; Part 1: Protocol Implementation Conformance Statement (PICS)	ETSI TS 102 917-1 V1.1.1
Intelligent Transport Systems (ITS); Test specifications for the channel congestion control algorithms operating in the 5,9 GHz range; Part 2: Test Suite Structure and Test Purposes (TSS & TP)	ETSI TS 102 917-2 V1.1.1
Intelligent Transport Systems (ITS); Test specifications for the channel congestion control algorithms operating in the 5,9 GHz range; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT)	ETSI TS 102 917-3 V1.1.1
Intelligent Transport Systems (ITS); Test specifications for the methods to ensure coexistence of Cooperative ITS G5 with RTTT DSRC; Part 1: Protocol Implementation Conformance Statement (PICS)	ETSI TS 102 916-1 V1.1.1
Intelligent Transport Systems (ITS); Test specifications for the methods to ensure coexistence of Cooperative ITS G5 with RTTT DSRC; Part 2: Test Suite Structure and Test Purposes (TSS&TP)	ETSI TS 102 916-2 V1.1.1
Intelligent Transport Systems (ITS); Test specifications for the methods to ensure coexistence of Cooperative ITS G5 with RTTT DSRC; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT)	ETSI TS 102 916-3 V1.1.1

5.6 Management

Standards developed for management and cross layer issues.

Table 9: Standards f	or management and	cross layer issues
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12

Standard title	Standard number
Intelligent Transport Systems (ITS);	
ETSI object identifier tree;	ETSI TR 102 707 V1.1.1
ITS domain	
Intelligent Transport Systems (ITS);	ETSLTS 102 860 V1 1 1
Classification and management of ITS application objects	
Intelligent Transport Systems (ITS);	
OSI cross-layer topics;	ETSI TS 102 723-1 V1.1.1
Part 1: Architecture and addressing schemes	
Intelligent Transport Systems (ITS);	
OSI cross-layer topics;	ETSI TS 102 723-2 V1.1.1
Part 2: Management information base	
Intelligent Transport Systems (ITS);	
OSI cross-layer topics;	ETSI TS 102 723-3 V1.1.1
Part 3: Interface between management entity and access layer	
Intelligent Transport Systems (ITS);	
OSI cross-layer topics;	ETSI TS 102 723-4 V1.1.1
Part 4: Interface between management entity and networking & transport layer	
Intelligent Transport Systems (ITS);	
OSI cross-layer topics;	ETSI TS 102 723-5 V1.1.1
Part 5: Interface between management entity and facilities layer	
Intelligent Transport Systems (ITS);	
OSI cross-layer topics;	ETSI TS 102 723-10 V1.1.1
Part 10: Interface between access layer and networking & transport layer	
Intelligent Transport Systems (ITS);	
Application Object Identifier (ITS-AID);	ETSI TR 102 965 V1.1.1
Registration list	
Intelligent Transport Systems (ITS);	
Facilities layer function;	ETSI TS 102 890-1 V1.1.1
Communication Management specification	
Intelligent Transport Systems (ITS);	
Facilities layer function;	ETSI TS 102 890-2 V1.1.1
Part 2: Services announcement specification	
Intelligent Transport Systems (ITS);	
Decentralized Congestion Control (DCC);	ETSI TS 103 175 V1.1.1
Cross Layer DCC control entity	

5.7 Security

Standards developed for security and privacy.

Standard title	Standard number
Intelligent Transport Systems (ITS);	
Security;	ETSI TR 102 893 V1.1.1
Threat, Vulnerability and Risk Analysis (TVRA)	
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 102 867 V1.1.1
Stage 3 mapping for IEEE 1609.2	
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 102 943 V1.1.1
Confidentiality services	
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 102 941 V1.1.1
Trust and Privacy Management	
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 102 942 V1.1.1
Access Control	
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 102 940 V1.1.1
ITS communications security architecture and security management	
Intelligent Transport Systems (ITS);	
Security;	ETSI TS 103 097 V1.1.1
Security header and certificate formats	

Table 10: Base standards for security and privacy

Table 11: Testing standards for security and privacy

Testing Standard title	Standard number
Intelligent Transport Systems (ITS);	
Testing;	
Conformance test specification for TS 102 867 and TS 102 941;	ETSI TS 103 096-1 V1.1.1
Part 1: Test requirements and Protocol Implementation Conformance Statement	
(PICS) proforma	
Intelligent Transport Systems (ITS);	
Testing;	ETSI TS 103 096-2 V/1 1 1
Conformance test specification for TS 102 867 and TS 102 941;	E13113 103 090-2 V1.1.1
Part 2: Test Suite Structure and Test Purposes (TSS & TP)	
Intelligent Transport Systems (ITS);	
Testing;	
Conformance test specification for TS 102 867 and TS 102 941;	ETSI TS 103 096-3 V1.1.1
Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information	
for Testing (PIXIT)	
Intelligent Transport Systems (ITS);	
Testing;	
Conformance test specification for TS 102 867 and TS 102 941;	
Part 4: Validation report	

History

Document history			
V1.1.1	May 2013	Publication	

14