

Spirent TTsuite-EU-ITS

Running Conformance Tests against ITS Equipment (ITS-G5 or C-V2X PC5)

Benefits

- Ensure conformance of an implementation or a system based on ETSI test specifications
 - Required for interoperability at ETSI PlugTests™
- Fast and simple test execution and analysis
- Repeatability of tests and full support of test automation
- Platform independence and rapid integration in existing test environments
- Flexibility through usage of the constantly evolving standardized test notation TTCN-3

Target Audience

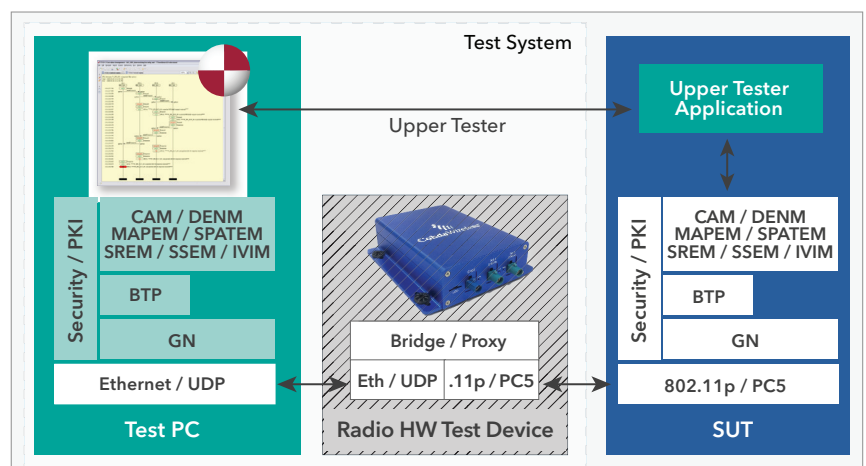
- Companies supplying or testing ITS technology

Requirements

- Test System (optional)
 - ITS-G5 Radio Device with Bridge/ Proxy Software (e.g. Cohda Wireless MK5) or
 - C-V2X PC5 Radio device with Bridge/Proxy Software (e.g. Ficosa CARCOM)
- SUT: Implementation of Upper Tester functionality
 - For executing selected test cases automatically

Features

- ETSI TTCN-3 Conformance Test Suite for
 - Cooperative Awareness Basic Service (CA)
 - Decentralized Environmental Notification Basic Service (DEN)
 - GeoNetworking Basic Transport Protocol (BTP)
 - GeoNetworking (GN)
 - Transmission of IP packets over GeoNetworking (GN6)
 - Facilities layer protocols and infrastructure services (MAPEM/SPATEM, IVIM, SREM/SSEM)
 - ITS Security
 - PKI
- Free codec and adaptation based on the validation done by ETSI
- UDP communication for upper tester communication
- Three different modes for freely exchanging protocol messages
 - Wired (Ethernet) communication with the Device Under Test or
 - Radio communication via ITS-G5 Radio or
 - Radio communication via PC5 C-V2X Radio
- Platform-independent in using Java (existing ETSI adaptation implementation)
- Possible usage of ANSI C as adaptation
- Freely combinable with additional test access (TTplugins)



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About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit: www.spirent.com

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Base Specification

- **ETSI TS 102 636-4-1**
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 functionalities

Test Specifications (Parts 1/2/3*)

- **ETSI TS 102 859-3 V1.2.1:** Conformance test specifications for Transmission of IP packets over GeoNetworking (GN6)
- **ETSI TS 102 868-3 V1.5.1:** Conformance test specifications for Cooperative Awareness Basic Service (CA)
- **ETSI TS 102 869-3 V1.6.1:** Conformance test specification for Decentralized Environmental Notification Basic Service (DEN)
- **ETSI TS 102 870-3 V1.1.1:** Conformance test specifications for GeoNetworking Basic Transport Protocol (BTP)
- **ETSI TS 102 871-3 V1.4.1:** Conformance test specifications for GeoNetworking ITS-G5 (GN)
- **ETSI TS 103 096-3 V1.4.1:** Conformance test specification for ITS Security
- **ETSI TS 103 525-3 V1.4.1:** Conformance test specification for ITS PKI management
- **ETSI TS 103 191-3 V1.2.1:** Conformance test specifications for Facilities layer protocols and communication requirements for infrastructure services (MAPEM/SPATEM, IVIM, SREM/SSEM)

*Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS)

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

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

Reference Platforms

- Java 8
- Microsoft Windows 7/8/10
- Linux (GTK2, x86-32, x86-64)

Ordering Information

Part Number	Description
TEC-SUITE-ITSG5	TTsuite-EU-ITS
TEC-SVC-1015-TS-1Y	TTSUITE SUPPORT & MAINTENANCE 1YR
TEC-TT-WP	TTWORKBENCH PROFESSIONAL
TEC-SVC-1015-WB-1Y	TTWORKBENCH SUPPORT & MAINTENANCE 1YR
TEC-HW-MK5-1	DSRC PROXY HW DEVICE
TEC-HW-MK5-SVC-1Y	DSRC PROXY HW SUPPORT & MAINTENANCE MK5 1YR

