

# Spirent TTsuite-WAVE-DSRC

## Running WAVE Conformance Tests against V2X Equipment

### Benefits

- Ensure the conformance of an implementation or a system based on USDOT test specifications
  - Required for USDOT certification
- 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

### Reference Platforms

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

### Features

- USDOT Certification Operating Council (COC) Conformance Test Suite for Wireless Access in Vehicular Environments (WAVE)
- WSM/WSA packet validation
  - Secured/unsecured reception/transmission of WSM/WSA packets
  - Communication using IPv6
- Full test automation via Test Control Interface
- Freely combinable with additional test access (TTplugins)

### Target Audience

- Companies supplying or testing WAVE-DSRC ITS technology

### Scope of Delivery

- WAVE-DSRC hardware device as radio proxy

### Base Specifications

- SAE J2945.1
  - On-board system requirements for V2V Safety Communications
- SAE J2735
  - Candidate Improvements to Dedicated Short Range Communications (DSRC) Message Set Dictionary [SAE J2735] Using Systems Engineering Methods
- IEEE 1609.2-2016
  - IEEE Standard for Wireless Access in Vehicular Environments
  - Security Services for Applications and Management Messages
- IEEE 1609.3-2016
  - IEEE Standard for Wireless Access in Vehicular Environments
  - Networking Services
- IEEE 1609.4-2016
  - IEEE Standard for Wireless Access in Vehicular Environments (WAVE)
  - Multi-Channel Operation

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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.

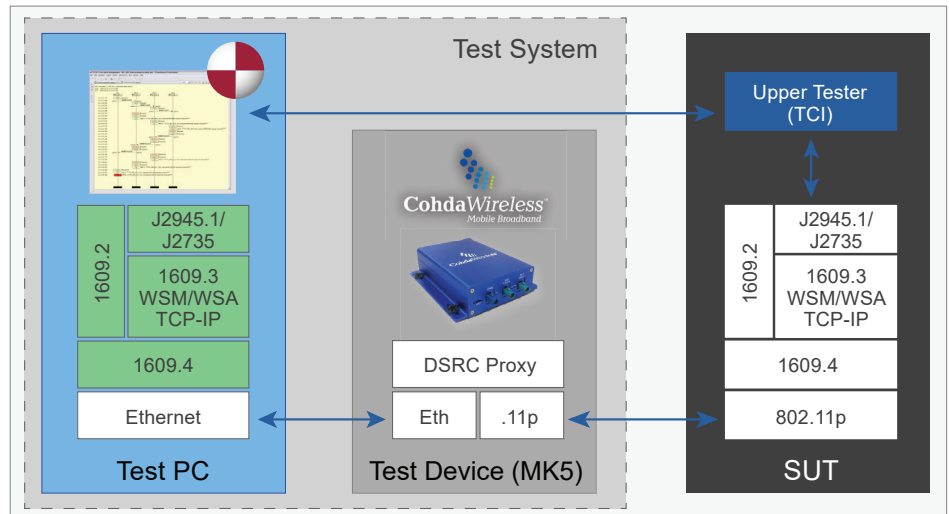
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### Test Specifications

- **WAVE-16092-TSS&TP** Conformance test specifications for Wireless Access in Vehicular Environments (WAVE)
  - Security Services
  - Test Suite Structure and Test Purposes (TSS & TP)
- **WAVE-16093-TSS&TP** Conformance test specifications for Wireless Access in Vehicular Environments (WAVE)
  - Networking Services
  - Test Suite Structure and Test Purposes (TSS & TP)
- **J2945/1-TSS&TP** Conformance test specifications for SAE J2945/1
  - On-Board System Requirements for V2V Safety Communications
  - Test Suite Structure and Test Purposes (TSS & TP)
- **WAVEMCO-TSS&TP** Conformance test specifications for Wireless Access in Vehicular Environments (WAVE)
  - Multi-Channel Operation
  - Test Suite Structure and Test Purposes (TSS & TP)

### Ordering Information

Part Number	Description
TEC-SUITE-WAVE-DSRC	Ttsuite-WAVE-DSRC
TEC-SVC-1015-TS-1Y	TTSUITE SUPPORT AND MAINTENANCE 1YR
TEC-TT-WP	TTWORKBENCH PROFESSIONAL
TEC-SVC-1015-WB-1Y	TTWORKBENCH SUPPORT AND MAINTENANCE 1YR
TEC-HW-MK5-1	Cohda MK5 OBU
TEC-HW-MK5-SVC-1Y	DSRC PROXY HW SUPPORT AND MAINTENANCE MK5 1YR

