

# TTsuite-WAVE-DSRC

## Running WAVE Conformance Tests against V2X Equipment

### 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

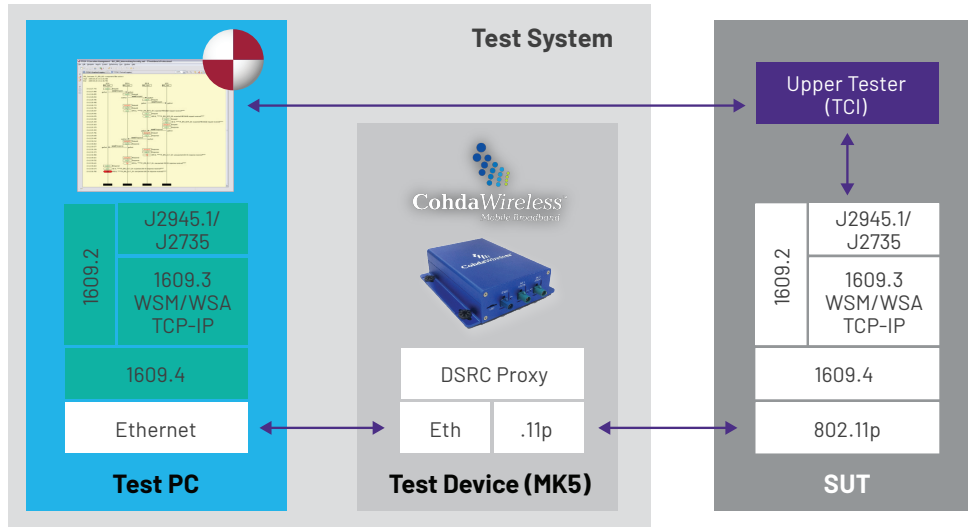
- **SAE J2945.1**
  - On-board system requirements for V2V Safety Communications
- **SAE J2735**
  - Candidate Improvements to Dedicated Short Range Communications (DSRC) Message Set Dictionary [SAE J2735] Using Systems Engineering Methods
- **IEEE 1609.2**
  - IEEE Standard for Wireless Access in Vehicular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

### 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)



### 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

Product	Part Number
TTSuite-WAVE-DSRC	TEC-SUITE-WAVE-DSRC
TTSuite Support And Maintenance 1yr	TEC-SVC-1015-TS-1Y
TTWorkbench Professional	TEC-TT-WP
TTWorkbench Support And Maintenance 1yr	TEC-SVC-1015-WB-1Y



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