

TTsuite-WAVE-LTEV

Overview

TTsuite-WAVE-LTEV is a solution for signalling protocol testing of C-V2X devices that implement the US V2X protocol stack over LTE-V PC5 interface. It contains a set of automatically executable test scripts for the Wireless Access in Vehicular Environments (WAVE) standard (as defined by OmniAir) for validating compliance of On-Board Units (OBU) and Road-Side Units (RSU) to IEEE and SAE standard specifications.

The solution helps ensure cross-vendor interoperability of on-board and road-side units supporting those standards.

Target Audience

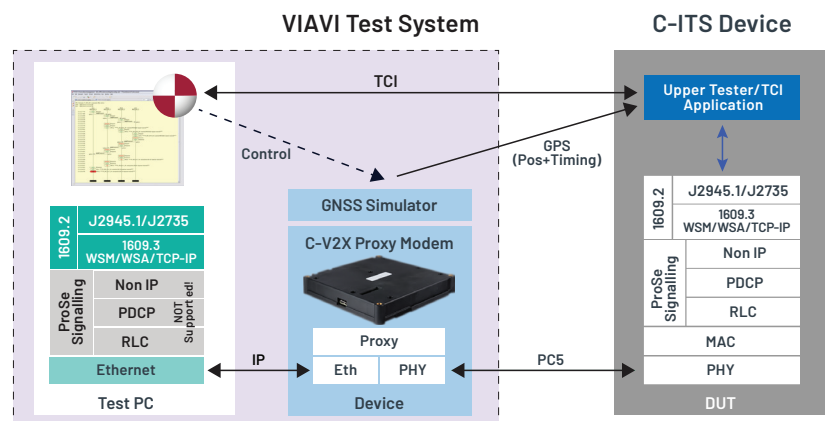
- Companies supplying or testing C-V2X WAVE-LTEV technology

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 1609.2-2023
 - IEEE Standard for Wireless Access in Vehicular Environments
- Security Services for Applications and Management Messages
 - IEEE 1609.3-2023
- IEEE Standard for Wireless Access in Vehicular Environments
 - Networking Services

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 (TCI)
- Freely combinable with additional test access (TTplugins)
- Simulated mobility either via Automated VIAVI GNSS Simulator Equipment Remote Control or TCI



TTsuite-WAVE-LTEV solution

Test Specifications

Standard	Description
WAVE-16092-TSS&TP	<ul style="list-style-type: none">• Conformance test specifications for Wireless Access in Vehicular Environments (WAVE)• Security Services• Test Suite Structure and Test Purposes (TSS & TP)
WAVE-16093-TSS&TP	<ul style="list-style-type: none">• Conformance test specifications for Wireless Access in Vehicular Environments (WAVE)• Networking Services• Test Suite Structure and Test Purposes (TSS & TP)
J2945/1-TSS&TP	<ul style="list-style-type: none">• Conformance test specifications for SAE J2945/1• On-Board System Requirements for V2V Safety Communications• Test Suite Structure and Test Purposes (TSS & TP)
RSU4.1-TSS&TP	<ul style="list-style-type: none">• Conformance test specifications for RSU4.1 V2I v1.0• RSU4.1 V2I• Test Suite Structure and Test Purposes (TSS & TP)

Ordering Information

Product Number	Description
TEC-TT-WP	TTWORKBENCH PROFESSIONAL
TEC-SUITE-WAVE-LTEV	TTsuite WAVE LTEV
TEC-SVC-1015-WB-1Y	TTworkbench Support and Maintenance 1Y
TEC-SVC-1015-TS-1Y	TTsuite Support and Maintenance 1Y



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