



The Mx-DSRC™ Conformance Test System exercises devices with DSRC modules (ASDs, OBUs, RSUs, etc.) to validate their conformance to the Wireless Access in Vehicular Environments (WAVE) standards for V2X communications. The easy-to-use tool provides a powerful framework that automatically executes tests and generates the reports needed for USDOT Certification. It is designed to be used by:

- Test laboratories to certify devices
- Product companies to pre-certify their devices

The platform is expandable for support of other vehicle functions, such as CANbus communications.

## Features

Perform in-house pre-certification testing

Automatic test execution and reporting

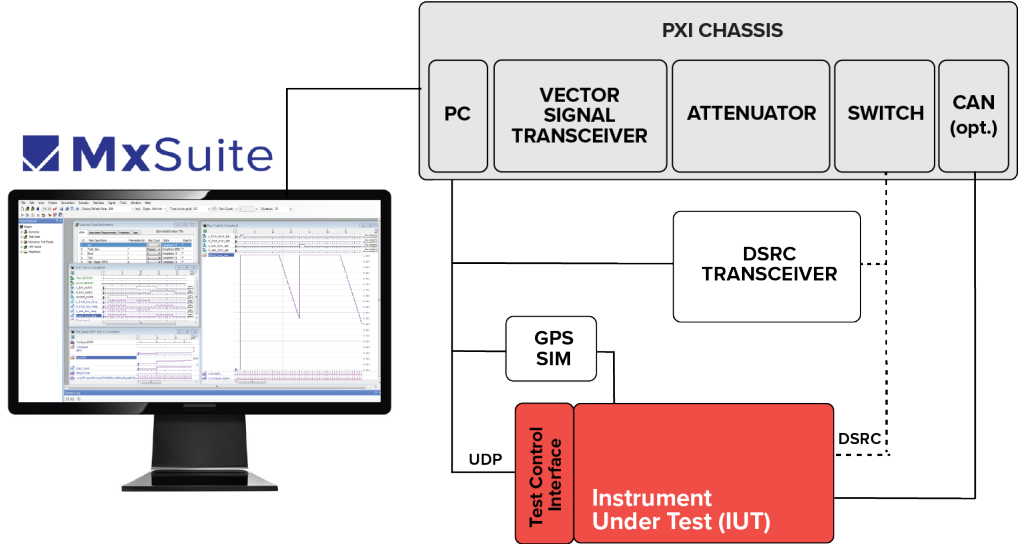
Includes the USDOT Certification tests

Validated as Qualified Test Equipment (QTE) by OmniAir

## Benefits

Drastically reduces test time with set-and-forget automation

Easy-to-understand configuration for execution of tests



## Contact Us

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This document is provided for information purposes only and the contents hereof are subject to change without notice.

## Certification Tests Covered

### DSRC Communications

- Physical (IEEE 802.11)
- Link (IEEE 1609.4)
- Transport (IEEE 1609.3 WSM & WSA)
- Security (IEEE 1609.2)

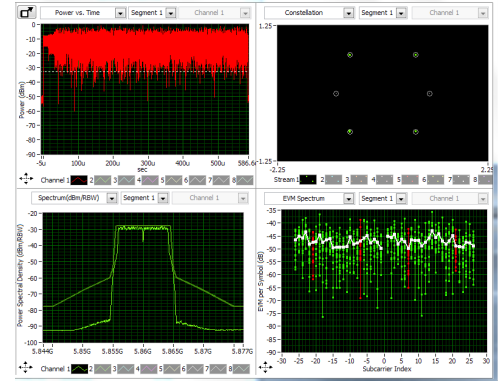
### DSRC Messaging

- SAE J2945/1 Requirements for BSM
- Encoding (ISO ASN.1 UPER & COER)
- Process Information (SAE J2735)

## RF Quality Testing

Comprehensive RF Quality measurements to ensure interoperability

- Data Rate
- Adjacent /Non-adjacent Channel Rejection
- Transmit Spectral Mask
- Center Frequency Tolerance
- Symbol Clock Frequency Tolerance
- Constellation Error
- Spectral Flatness
- Transmit Center Frequency Leakage
- Transmit Power
- Receiver Input Sensitivity



## Versions

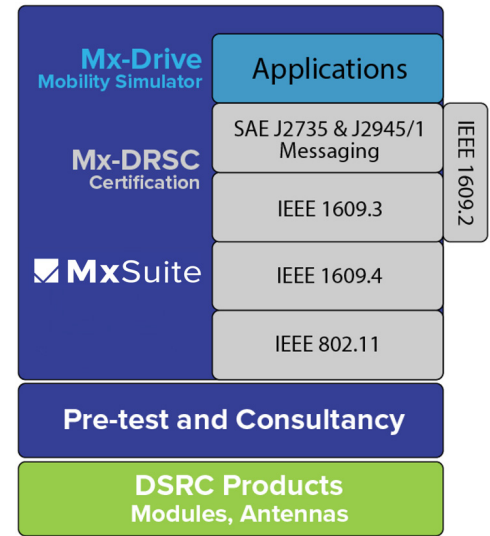
### Mx-DSRC - Full Version

Comprehensive tester that executes the full protocol and physical layers. Included tests:

- IEEE 802.11p DSRC
- IEEE 1609.2 Security Services for Applications and Management Messages
- IEEE 1609.3 Network Services
- IEEE 1609.4 Multi-channel Operations
- SAE J2945/1 On-Board Systems for V2V Safety Communications, bench tests only

### Mx-DSRC - Protocol Only

The lighter version that tests messaging and security. (IEEE 802.11 not included.)



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Mx-DSRC Conformance Test System underwent rigorous testing and is listed as a Qualified Test Equipment (QTE) for OmniAir Consortium's Connected Vehicle Certification Program.



## Related Products

- **Mx-Suite Embedded Software Test Automation** is the most comprehensive automated platform for embedded software verification and validation.
- **Mx-Drive Multi-vehicle Simulator** provides an environment to generate and run real-world conditions to test smart/connected vehicle applications.