Southwest Research Institute® (SwRI®) has over 10 years of experience developing, deploying, and testing connected vehicle (CV) technologies. SwRI has also been involved in CV standards development, and has supported the establishment of a certification environment to qualify CV devices against those standards. As part of this, SwRI has developed a comprehensive test tool suite to verify conformance to the SAE J2945/1 standard (On-Board System Requirements for V2V Safety Communications).

The SwRI CV Test Tool includes data collection, data analysis, and reporting software tools, as well as all required hardware in a simple, portable package. The tool enables full test coverage of all vehicle-level J2945/1 requirements. Recording and analysis are designed around established data collection procedures, so testing and analysis can be performed for all requirements or a subset. The tool generates an easy-to-follow summary report with conformance status for each requirement tested, while also providing detailed testing artifacts including plots, logs, and raw data.

**Test Tool Features**
- SAE J2945/1 requirements verification
- Basic Safety Message (BSM) Part II analyzer
- Automated report generation
- Options for ground truth position system

**Testing Supported**
- Base
- Power
- Event
- Accuracy
- CDA (controlled deceleration and acceleration)
- Security and privacy
- Path prediction
We welcome your inquiries.
For more information, please contact:

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**Benefits**

**Clear**
- Automatic report generation with pass/fail status for each vehicle-level J2945/1 requirement
- Informative data plots for all major J2945/1 requirements

**Comprehensive**
- Detailed logs including .csv output for BSM and ground truth data
- BSM parser/viewer and path history analysis tools included
- MPR (maximum performance requirements) data collection procedures included
- Hardware included
- Software updates included for one year

**Configurable**
- Test few or all vehicle-level J2945/1 requirements as desired

Purchase/Lease options are available

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