



Telematics and In-vehicle Infotainment Testing Solution

Feature-rich, and Scalable vehicles to the market rapidly at competitive costs

Tessolve helps vehicle manufacturers, car infotainment equipment-makers and service providers to develop and integrate newer technologies in products to enhance product capabilities. Our solutions and services enable customers to bring feature rich, robust, and saleable vehicles to the market rapidly at competitive costs.

Our expertise is development and testing of integrating a telematics-based control unit (TCU) or Connected Control Unit (CCU) into automotive applications. Our engineers can simulate a connected transport environment allowing engineers to create virtual driving and use case scenarios that include CAN bus simulation, GPS data, wireless network, Bluetooth, Wi-Fi and simulated hardware I/O along with telematics connections.

In addition to the fully connected environment we will help the 'control unit' connects to the real network environments such as recorded GPS data and scenario with actual multipath elements or wireless networks linked to operators and web services.

Application testing is easily implemented with the automated test features. We will support 24/7 to accurately gauge the confidence levels of our customers entire Telematics and Infotainment.

Connectivity, Infotainment and Entertainment In-Car audio systems are not new, and they have been a part of transport technology for a long time. What has changed is the increasing integration of audio and information systems with built in electronic systems in modern vehicles. Today's generation of in-car infotainment systems is not just providing entertainment but add information and services useful to drivers for safety, communications and navigation. Intelligent infotainment systems are enabled for the latest digital audio and video services, GPS and communication systems such as Bluetooth®, WLAN, 3G/4G LTE and future 5G.

Features

- Bluetooth
- Wi-Fi
- GPS/DR Interface
- GSM/WCDMA/LTE Interfaces
- Fully Automated testing
- Vehicle Configuration
- Vehicle & Remote Diagnostics
- Mobile Telephone Interface
- TCU (ECU) Interface
- CCU Interface
- Vehicle CAN Simulation
- Multiple Power Supplies
- Application testing
- Scripting/Modeling
- Fault Insertion
- Remote access
- Logging



Hardware Integration

- Automated Fault insertion
- HIL breakout panel
- FPGA signal integration
- Audio analysis
- Automated physical signal integration

GPS

- Design virtual Routes
- Runtime interaction with GPS Simulation
- Record live GPS
- Playback recordings
- Correlated 4-wheel sensor data

Cellular

- 3G
- 4G
- Live Cellular Integration
- Simulated Network
- Automated Call management
- Automated SMS
- Automated data

Multimedia/Connectivity

- Satellite Radio
- Wi-Fi
- Bluetooth

Vehicle Network

- Multiple CAN bus support
- LIN bus support
- Full vehicle simulation
- Automation interface

Automated Test Interface

- User created Test Cases
- User defined logging levels
- HMITS integration
- Automated speech output
- Automated speech input
- Video input detection
- Touch screen interface

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Emergency response testing and validation is also easily tested with the simulated vehicle API. Working with your OEM, the vehicle network allowing us to duplicate traffic and I/O associated with crash and emergency events. Our development and Testing Services will greatly reduce the time required to integrate a telematics control unit into the vehicle and telematics (system) environment. With our skills to simulate road, weather, and electromagnetic conditions, telematics system functionality can now be proven in the lab environment without exhaustive road and live system testing on a fleet of OEM vehicles.

Future telematics systems development with its flexible and expandable design: test engineers will no longer have to rely on empirical data obtained from OEM test vehicles. Additionally, the creation of controlled and repeatable test scenarios impossible to achieve with traditional test benches and test vehicles.

About Tessolve

Tessolve Semiconductor Private Limited (Tessolve) provides services and products to organizations developing complex products in the microelectronics and embedded software and systems industries. Tessolve operates globally with offices in the UK, USA, France, Germany, India and Singapore and also operates through a network of international partners

Why Choose Us?

At Tessolve we always follow through on our commitments and stay clear of timescales. We know how to balance your budget with your objectives. We are always diligent in our approach and flexible to your changing requirements as we understand how critical our services can be to your business success.

Benefits at a Glance

- Save Time and Money
- World – Class Expertise
- Independent and Impartial
- Global Support
- Flexible Engagement Model
- Local and Offshore Resources



TESSOLVE
A Hero Electronix Venture