

MAXEYE TECHNOLOGIES

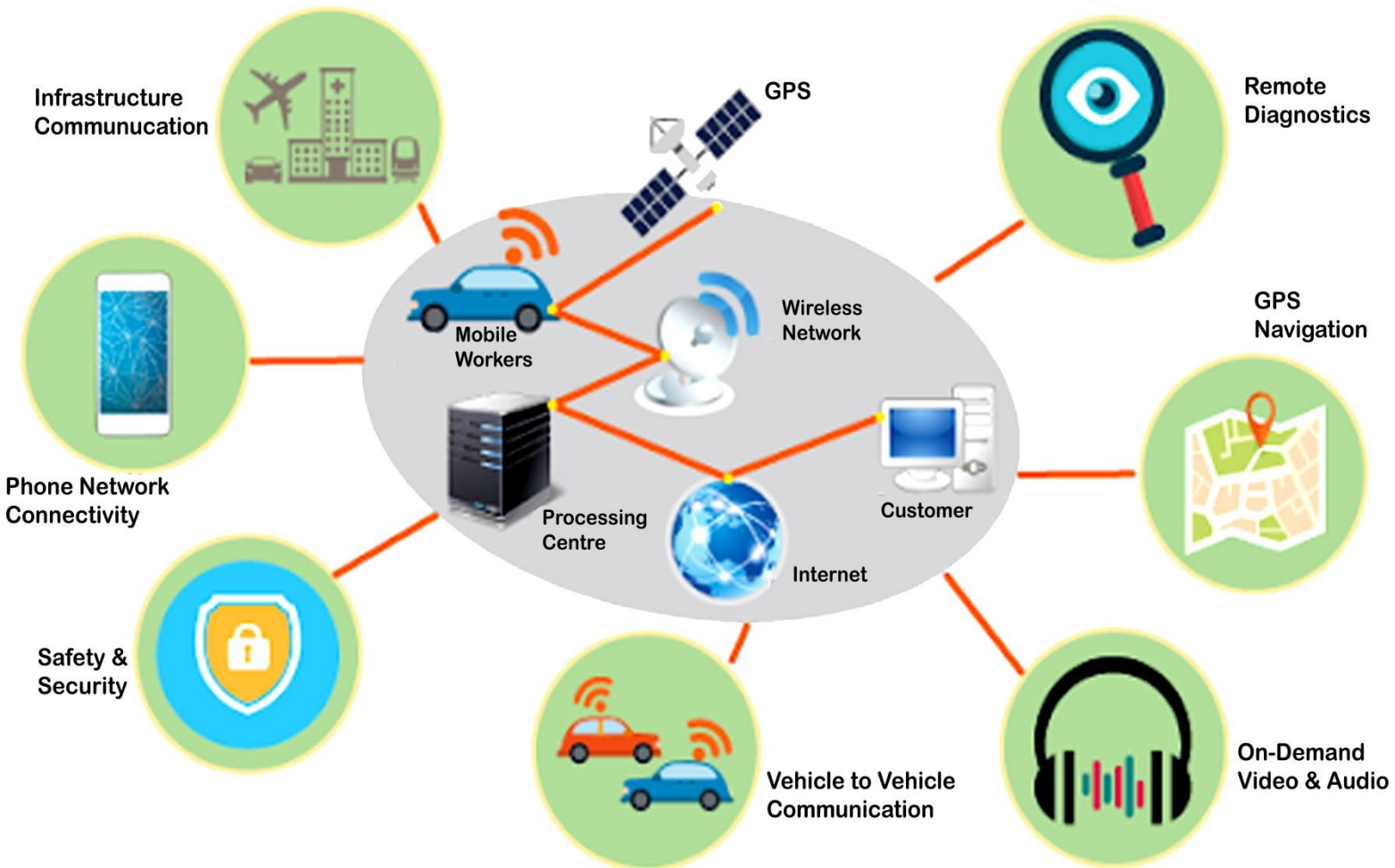
Telematics Test Solution

GNSS Simulation

E-Call Test

Mobile Network

Vehicle Network

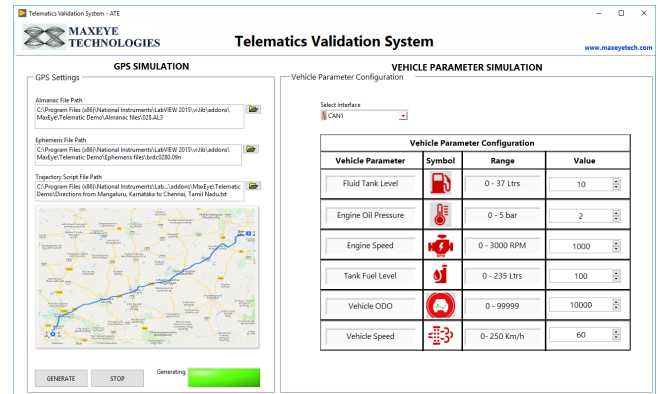




Key Features

- GNSS Simulation
 - GPS
 - Glonass
 - Galileo
 - Beidou
 - QZSS
- Mobile Network
 - GSM
 - WCDMA
 - LTE
- Vehicle Network
 - CAN
 - LIN
 - FlexRay
- Connectivity
 - Bluetooth
 - WiFi
- Infotainment
 - Satellite Radio
 - Digital Audio
 - Digital Video
- E-call Test
- Vehicle Simulation
- TCU Interface
- Virtual Driving Simulation
- Mobile Phone Interface
- Vibration Shaker and Tilt
- Fault Insertion
- Radiated and Conducted Tests
- RF Shield Box
- Programmable Power Supplies
- Automated and Manual Test
- Scripting and Logging
- Remote Access and Diagnostics
- Scalable and Software Defined Architecutre

Our Telematics and Infotainment Test solution is based on scalable and software defined PXI architecture powered by LabVIEW and TestStand test automation software. The test system emulates the connected car environment, virtual driving, vehicle parameters using CAN simulation, simulated hardware I/O and communication with the web server.

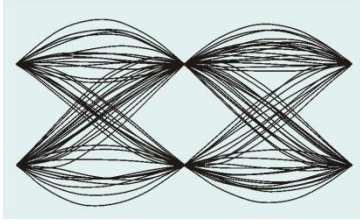


Our test system significantly reduces the time required to integrate a telematics control unit into the vehicle.



Telematics System Test Cases

Module	Test System Features	Test System Components
GNSS	Receiver Sensitivity – Acquisition and Tracking	NI PXI System GNSS Simulation Software
	Virtual Routes Simulation	
	Run time interaction with GNSS	
	Live GNSS Record	
	GNSS Playback	
	Correlated four wheel sensor data	
	Scenario simulation – Tunnel, Urban Canyon etc.,	
Mobile Network	Automated Call Management, Emergency call	Basestation Emulator
	2G	
	3G	
	4G	
	Automated SMS and Data	
Vehicle Network	Multiple CAN bus support	NI PXI System CAN/LIN
	LIN bus Support	
	Full Vehicle Simulation	
Hardware Integration	Automated Fault Insertion	NI PXI System Vibration Shaker RF Shield Box
	HIL breakout panel	
	Vibration Shaker, Tilt	
	FPGA Signal Integration	
	Automated Physical Signal Integration	
Infotainment	Satellite Radio	AST-1000
	Digital Radio and Video	
	Audio and Video Test	
Connectivity	WiFi	Mobile Phone
	Bluetooth	
Automated Test	Custom Test Cases	LabVIEW and TestStand
	Automated Test Sequences and Logging	
	HMI Test	
	Radiated and Conducted Tests	
	Remote access and Diagnostics	
	Video input detection	
Typical Test Scenarios	Emergency Alert Breakdown Alert Tow Alert Crash Alert Stolen Vehicle Tracking FOTA Services Location Service Battery Status Alert	NI PXI System LabVIEW and TestStand



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About MaxEye Technologies

MAXEYE Technologies founded in 2011, is a privately held company based in Bengaluru and Chennai, India, Silver Alliance Partner of National Instruments. We are a Test and Measurement company, specialized in providing turnkey solutions, products and consulting services. We have strong expertise in providing Test and Measurement solutions for Automotive Infotainment, ADAS and IOT devices testing and ATE Development.

The name "MaxEye" comes from Communication Engineering. Our logo symbolizes the Eye Diagram. The Eye Diagram is a Signal display pattern in which the digital signal in the receiver is repetitively sampled. The pattern appears like a series of eyes between two parallel rails. This pattern is usually used to diagnose the timing synchronization in a digital receiver. An open eye pattern corresponds to minimal signal distortion or in other words can conclude a near perfect time synchronization. A clear open eye pattern is also called "MaxEye".

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