

Traffic Management Center Authority Service

V2X Message Authority



**Accelerate and Secure
Traffic Management Center
Operations with a Scalable
Hosted Service**

Trusted by Vehicles and Road-Side Equipment Everywhere

Authenticated V2X Messaging

IEEE 1609.2 formatting and signing of Signal Phase and Timing (SPaT), MAP, and Traveler Information Messages (TIM)

High Assurance Security

Redundant failover and FIPS 140-2 Level 3 protection of critical signing keys from misuse and hacking.

Zero Key Management Necessary

Preloaded with all required certificates plus ongoing automatic top-offs from the ISS Certificate Management Service (CMS)

Custom Provider Service Identifier (PSID) Messaging

Add custom methods for proprietary PSID's.

Message and Secured Protocol Data Unit (SPDU) Encryption

For receiving encrypted vehicle probe data.

Other Services

RSU feed retrievals and misbehavior detection.

TRUSTED V2X COMMUNICATION

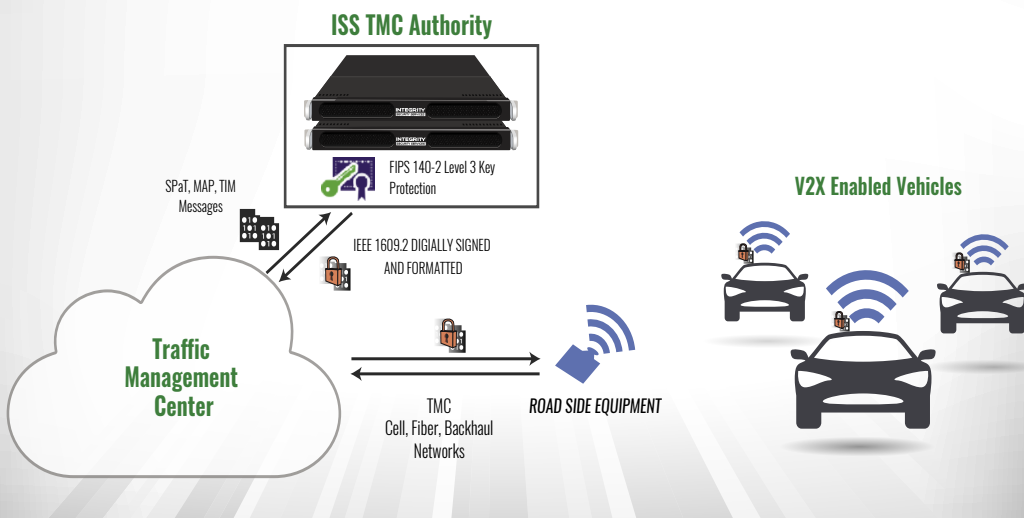
IEEE1609.2 Message Security

The ISS TMC Authority inspects and digitally signs traffic management center messages for instant verification and acceptance, compliant with IEEE 1609.2 standards and cryptography.

Data is secured inside and out with FIPS 140-2 Level 3 protection of keys and TLS v1.2 tunnels to TMC servers. High availability network failover is standard, including redundant power supplies and storage, the TMC Authority maintains trusted reliable operation, even in untrusted environments.

Easy setup and configuration via web based management interface and interoperable with TMC's LDAP or Active Directory access control. Flexible REST API using JSON easily integrates to TMC local and cloud networks allowing TMCs to deploy V2X services today.

Add V2X Message Services to Existing TMC Networks



COMPLIANCE

- IEEE 1609.2 formatting and cryptography for SAE J2735 & J2945/4, SPaT, MAP, and TIM interoperability
- Compatible with U.S. DOT SCMS Proof of Concept

ADMINISTRATION

- Web and automated software interfaces with role-based access control

SECURE AUTHENTICATION INTERFACE

- Mutual Authentication
- TLS Link
- Access via REST API

SECURE DATACENTERS

- Secure Infrastructure
- 24/7/365 Operating Monitoring
- Redundant Power, Site Generators
- Multiple Internet Providers
- Industrial Cooling
- Fire protection
- Standards Compliance

SUPPORT

- Subscription service includes all hardware, software, services, and continued support to deploy secure Traffic Center V2X messages

About INTEGRITY Security Services:

INTEGRITY Security Services was established in 2009 by Green Hills Software to provide best-in-class embedded security solutions. ISS products and services secure devices, software, networks, and data—from the smallest embedded component to the largest data center—throughout the product lifecycle. Comprehensive solutions include cryptographic toolkits and high-availability enterprise PKI systems to provide end-to-end security. Learn more about ISS at www.ghsiss.com.

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