

Signal Priority

Transit System



Description

The **Signal Priority System** uses the Spot Devices **Acuity™** tracking and control application to provide cost-effective, simple management of schedule-sensitive vehicles. **Acuity** is part of the **Spot Devices System Infrastructure Management Applications (SIMA)** suite, a set of secure Web-based tools for remote, enterprise-wide supervision of all Spot Devices systems.

Operation

The **Signal Priority System** monitors GPS-based vehicle location via Virtual Private Network (VPN) communications between a vehicle-mounted modem and the **SIMA** server complex. **SIMA** then uses the same VPN to command a local SC320-series Spot Devices controller to notify a co-located, industry-standard traffic signal controller that a vehicle has passed a configurable virtual fence (geofence).

Applications

- ▶ Reduce transit time for public transportation
- ▶ Vehicle location management
- ▶ Grade crossing management

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Highlights

- ▶ Mission-critical, dedicated VPN communications managed by 24/7, multi-location, fully redundant Network Operations Centers
- ▶ Real-time vehicle location monitoring via secure Web site from virtually any browser-equipped device
- ▶ Detection of vehicle has no proximity or line-of-sight limitations
- ▶ Notifications to traffic signal controller of geofence passage at configurable distance(s) before and after intersection
- ▶ Field hardware is limited to SC320-series Spot Devices controllers and modems, minimizing system management and maintenance costs
- ▶ Compatible with industry-standard cabinets and traffic signal controllers
- ▶ Driver management and homeland security application provides proactive e-mail alert if vehicle deviates from route

System Components

- ▶ SC320RM Rack-Mount Controller
- ▶ Vehicle-mounted M2M modem and GPS unit

Arrive Safely

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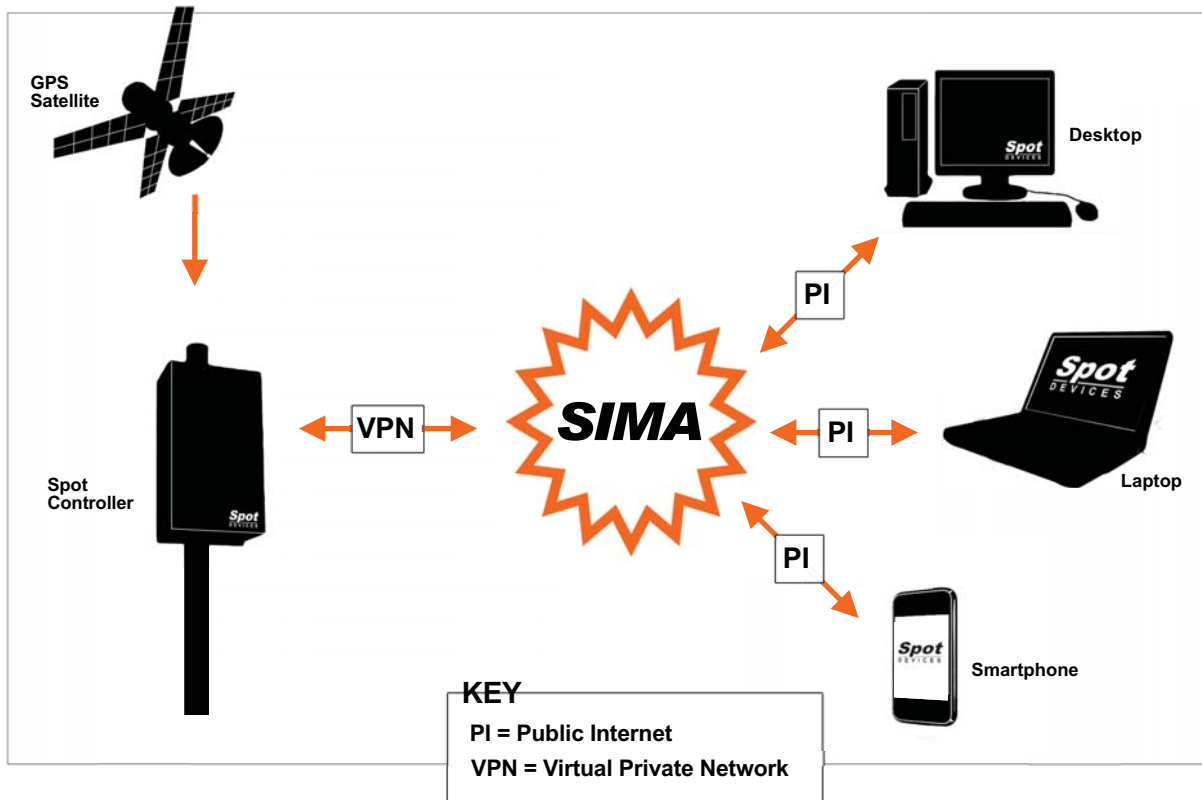
SIMA - The Spot Difference

The Web-based suite of System Infrastructure Management Applications (SIMA), allows for remote management of one to thousands of systems. SIMA provides automatic, real-time diagnostics; proactive e-mail alerts; and a GPS-based map that shows vehicle locations in real time.

SIMA is accessed via a secure Web site. Authorized users may gain access from virtually any browser-enabled device, without the need for installing client-side software.



SIMA Diagram



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