

Real-Time Tracking and Arrival Notification Transit System



Description

The Spot Devices **Real-Time Tracking and Arrival Notification Transit System** not only provides transit arrival and trip planner information via browser, but also makes location-specific transit information available on large, outdoor, high-definition monitors.

In general, the **Real-Time Tracking and Arrival Notification Transit System** improves the transit experience of the frequent commuter, and encourages the inexperienced rider to use the transit system.

Operation

Global Positioning System (GPS) receivers and Machine-to-Machine (M2M) modems on transit vehicles report locations in real time to the Spot Devices suite of **System Infrastructure Management Applications (SIMA)**. This information is converted to arrival times and active map displays showing actual vehicle location and projected arrival times. For transit operations, there is: (1), automatic dispatch to map buses to the appropriate route; (2), online transit tracking for route management; and, optionally, (3), traffic signal priority to speed transit vehicles through signal-controlled intersections.

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
- ▶ AC or solar power
- ▶ 2 year warranty

System Components

- ▶ Vehicle-mounted M2M modem and GPS units
- ▶ SIMA Administration Console

Applications

- ▶ Bus Rapid Transit (BRT) systems
- ▶ Light rail systems
- ▶ Conventional surface transit systems

Spot
DEVICES

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Arrive Safely

Real-Time Tracking and Arrival Notification Transit System

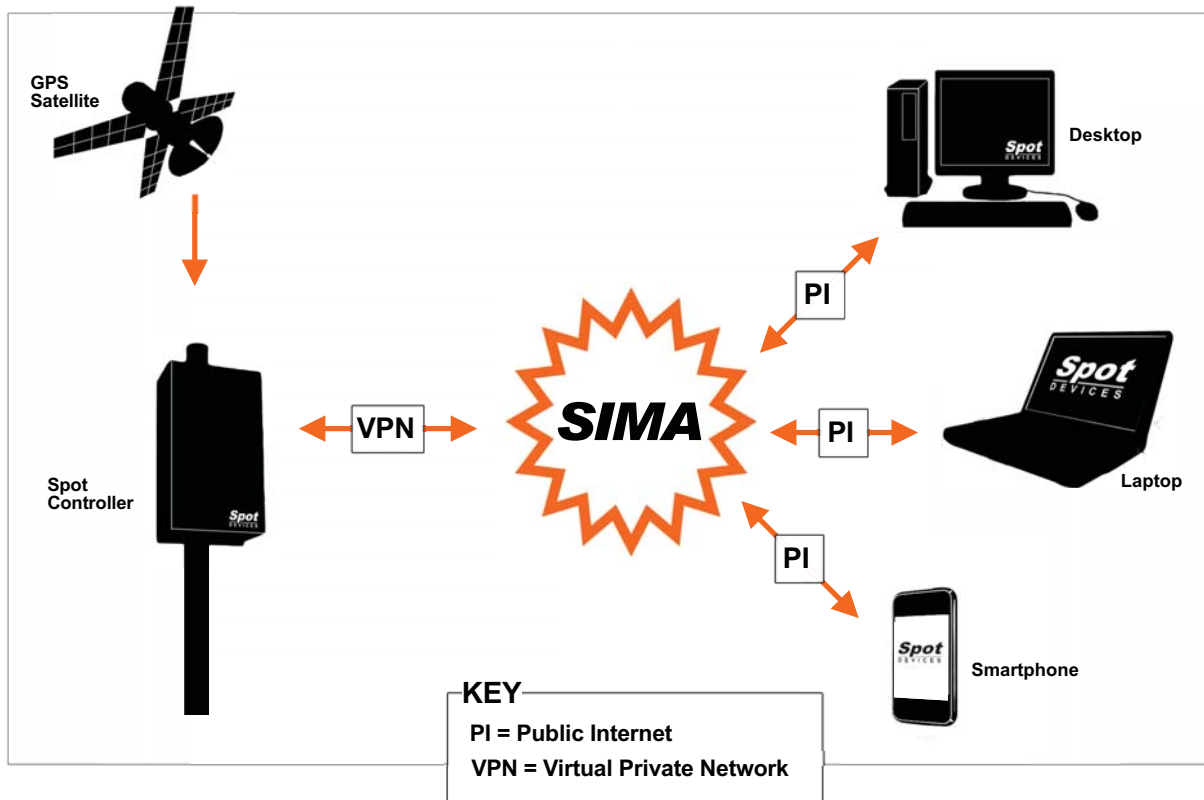
SIMA—The Spot Difference

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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