Enhance the Transportation Experience with Mobile Connectivity

The Internet of Things (IoT) is transforming the mass transportation industry. With smart, connected devices, transit companies can monitor hundreds of details about vehicles, tracks, environmental conditions, and much more. IoT technology can also help businesses deliver the value-add services passengers are beginning to expect, such as onboard Wi-Fi.

The challenge for today’s transportation companies is to find secure, efficient ways to put this IoT technology to work. Connecting devices and endpoints across a complex, wide-ranging transportation network can take a lot of time and resources.

We designed the Cisco® Mobile IP Gateway 2450 to help simplify these tasks. The MIG-2450 is a mobile connectivity gateway that delivers high availability communications between central offices, trackside operators, and transit vehicles by integrating GPS, Ethernet, Wi-Fi, and mobile broadband modems.

The MIG-2450 helps you comply with safety and interoperability regulations. It also gives you a way to collect and analyze data without the need for yet another piece of hardware to fit onboard a vehicle. And its modular design provides powerful connectivity for the services and applications that enhance the transportation experience for passengers and workers alike.

Benefits

- **Automate and improve communication** between the back office and transit vehicles.
- **Boost efficiency and simplify decision making** with visibility into vehicles, workers, and security system statuses.
- **Enhance the user experience** with new, value-added Wi-Fi services for passengers.
- **Improve safety for passengers and employees** with telematics, driver performance monitoring, and systems analytics applications.
- **Reduce operational costs** by automating systems management and streamlining PTC compliance for safety and speed enforcement.

Built for a Wide Range of Use Cases

The Cisco Mobile IP Gateway 2450 helps make your transportation operations more efficient, cleaner, and safer. And less costly to run. With this critical component in your network infrastructure, you can:

- Provide high-performance passenger Wi-Fi
- Implement and manage onboard information systems
- Make transportation safer with wireless surveillance
- Comply more easily with safety and speed regulations
- Remotely monitor and manage mobile assets
- Monitor driver and vehicle performance in real time
- Run systems analytics applications

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Offering Options for the Way You Do Business

The MIG-2450 delivers the following features:

- Hardened, scalable industrial system with a compact form factor, wide operating temperature range, fanless operation, and compliance with AAR Standard S-9401 and EN-50155
- Centralized management to allow operators to remotely monitor, control, and perform diagnostics
- Support for up to 4 Type-1 or 10 Type-2 interface cards for extensible connectivity
- Robust connectivity with support for quality of service (QoS), dynamic roaming, multilink load balancing and failover, and link monitoring
- Durable security through Internet Protocol Security (IPsec), Secure Shell (SSH), AES encryption, and datagram transport layer security (DTLS)

Next Steps
To learn more about the Cisco Mobile IP Gateway 2450, visit www.cisco.com/go/IoTSystem.