

M2M solutions for transportation: Gain greater visibility into fleet operations.

Today's highly diverse transportation industry is an interconnected web of individuals, companies, vehicles and systems.



It is paramount to move people and goods from one location to another as efficiently as possible. To gain real advantage, you need to optimize your operations by:

- Increasing visibility into your fleet and logistics operations
- Controlling costs through automated processes
- Improving visibility into location and condition of assets

Machine-to-machine (M2M) technology can help your company meet these needs through the exchange of data between your business infrastructure and remote assets. This enables you to quickly adapt to customer demands by analyzing and acting on the information intelligently. M2M technology empowers you to:

- Provide near real-time visibility into vehicle and asset location, condition and performance.
- Reduce maintenance and service costs using real-time diagnostics.
- Deliver location-based vehicle occupant services and safety information.

Transforming your business with M2M solutions

Verizon enables M2M solutions for transportation that help you:

- Increase operational efficiencies by monitoring, controlling and managing your remote assets.
- Accelerate decision making and response times to enhance the customer experience.

- Optimize revenue streams through infrastructure efficiencies that improve return on assets.

Verizon brings together critical partners and a wealth of network experience to help you get your M2M solution in place – fast.

Verizon Wireless LTE Innovation Center

The LTE Innovation Center is a collaborative environment for Verizon Wireless technology partners and participant companies to quickly develop and bring to market innovative products and solutions that will run on the Verizon Wireless 4G LTE network. The LTE Innovation Center offers a state-of-the-art Long Term Evolution (LTE) lab environment and a range of premier services and support from Verizon Wireless, including product design, user experience testing and business development resources.

Partner ecosystem

We team with top vertical-solution providers and strategic partners to enable M2M solutions over America's largest 4G LTE network.

Device and module portfolio

Our vendor-partners have modules that are certified to run on our data network for a broad portfolio of M2M solutions.

Flexible pricing models

Verizon provides competitive pricing and will work with your business to help you maximize value and efficiencies. Our pricing structures provide flexibility to address varying customer business models.

Network connectivity

Because your business needs are unique, Verizon Wireless and its Partner Program members and Open Development partners offer a variety of solutions with different connectivity options. For static devices with low-bandwidth requirements, 2G or 3G connectivity is the right option for the price. Other uses, like streaming surveillance video, benefit from 4G LTE. With Verizon Wireless vendors, you have choices to enable the right solution for your network connectivity.

Open Development

The Verizon Open Development program is designed to allow and encourage the development community to create new devices and bring these to the market on the Verizon Wireless network. Our network

currently has more than 7 million M2M connections and counting. Verizon Open Development providers can help you create cutting-edge M2M solutions for your business and customers.

M2M partner solutions for transportation

Every business can benefit from smart alliances. That's why we've teamed with leading solution providers to promote a range of innovative M2M solutions that can help you transform your business and reach your communication goals. Plus, we provide the expertise and experience you need to help you manage your solution from planning to implementation. For transportation companies, we have included a sampling of solutions from our Partner Program members, Open Development programs and strategic partners. For a list of operational solutions, visit our solution finder at <http://solutionfinder.verizonwireless.com>.

Commercial telematics

Verizon partners with commercial telematics solution providers like Telogis, Trimble and Telenav to help transportation businesses maximize the efficiency of their operations and benefit from significant cost reduction.

Fleet management

Telogis and Trimble help you increase visibility into your operations, using real-time access to GPS data to track vehicles, optimize routes, improve safety by monitoring driver behavior,

reduce costs and manage driver hours of service to adhere to regulatory standards. Plus you can leverage utilization data to optimize fleet size and costs.

Verizon Wireless Machine to Machine Management Center

The M2M Management Center helps you:

- Manage, troubleshoot and control your M2M devices in near real time using a single portal.
- Securely connect smart devices, remote assets, machines and systems.
- Leverage the Verizon Wireless network.

Asset tracking

The Telenav Asset Tracker™/Sendum PT200 solution tracks real-time location and condition of shipments and mobile assets, helping you reduce in-transit shrinkage, increase asset utilization through precise location data and track product conditions.

Tank monitoring

Digi Tank Solutions provide wireless

remote access to tank information in real time, so you can more efficiently monitor inventory, optimize delivery schedules and reduce maintenance costs.

Use case: fleet management

Optimizing service routes to improve efficiency

Challenge

With a fleet of more than 40,000 vehicles, Verizon is constantly looking for ways to optimize performance. Trimble® fleet management solutions deliver a scalable solution that uses real-time access to GPS data to help Verizon track and manage its drivers and trucks. With streaming data and reporting, Verizon was able to improve safety by monitoring driver behavior; optimize vehicle routes; reduce idle time; and handle more service calls.

Solution

- Trimble fleet management solutions
- Verizon Wireless 3G network

Results

- Enhanced vehicle location and performance data for near real-time analysis
- Improved maintenance schedules and awareness of vehicle usage
- Reduced fuel and operating costs
- Increased vehicle service hours and time on the road
- Real-time reporting of vehicle stops, delays and deliveries

- Enhanced security using geofencing technology and alerts

Use case: asset tracking

Pinpointing assets with precision

Challenge

It's a big world out there—especially when drivers hit the road without GPS. The challenge is to not lose sight of high-priced assets and inventory as travel routes stretch across interstate lines. The Sendum PT200 tracking device works in tandem with the Telenav Asset Tracker platform over America's largest and most reliable 3G network to help track the location and condition of valuable assets with speed and accuracy.

Solution

- Sendum PT200 tracking device
- Telenav Asset Tracker platform
- Verizon Wireless 3G network and data plan

Results

- Reduced in-transit shrinkage
- Increased asset utilization using location data
- Delivery confirmation and path reporting, including stops and delays
- Improved delivery times and customer satisfaction
- Decreased administrative burden, with fewer paper-based forms and processes

Verizon Wireless Private Network

Private Network works with all Verizon-certified M2M devices, providing:

- **Better security.** Traffic does not traverse the public Internet and is not comingled.
- **Better performance.** Data travels on a direct path to wireless devices, with no encryption required.
- **Network advantage.** Key features include Dynamic Mobile Network Routing, Verizon network performance and Verizon 4G LTE: America's largest 4G LTE network.
- **Scalability.** Private Network can be extended to thousands of devices.

The Verizon difference

Verizon Wireless operates America's largest and most reliable high-speed wireless network. We build and manage networks that keep you connected when you are on the go. We provide the expertise you need to help efficiently transform your business with flexible pricing and business models, a broad portfolio of devices and modules, integrated services and the most advanced technology.

Products referenced are provided by Verizon Partner Program members, which are solely responsible for the representations of their product functions, functionality, pricing and service agreements.

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Next step

Talk to your business specialist for more information about M2M solutions for transportation, or visit verizonwireless.com/m2m