

# Navman Wireless GPS Tracking

Improving Safety and Efficiencies in Transporting Special Needs Children

## THE CHALLENGE

Optimizing routing and management while enhancing the welfare and safety of 178 school buses transporting over 1,500 special needs children to more than 200 different schools every day throughout New Hampshire

## THE SOLUTION

Navman Wireless' GPS tracking and messaging technology combined with the KORE Telematics network for superior coverage and connectivity

## THE RESULTS

By deploying this cellular-based GPS solution, The Provider, Inc. achieved faster dispatch times, real-time tracking of bus locations, and closer monitoring of driver behavior, resulting in:

- \$400,000 annual savings reported by reducing driver overtime
- 50% less time in routing the right bus to the appropriate location
- Improved on-time performance through more efficient routing
- Increased child safety achieved by monitoring driver speeds and rapid response to bus breakdowns

## Background

The Provider Enterprises, Inc. contracts with over 50 school districts in the state of New Hampshire to transport more than 1,500 special needs students to and from school on a daily basis. Dispatching the company's 178 buses was tedious and cumbersome, requiring the use of a radio and constant manual checks to ensure buses with wheelchair lifts were dispatched when necessary. A more efficient routing and dispatch strategy was needed as well as a means of tracking buses and driver behavior to ensure optimal, safe and cost-effective performance across the board.

## Solution Overview

The Provider deployed a cellular GPS-based M2M system to reduce fuel usage and other operating costs, improve fleet productivity and enhance customer service.

Components of this M2M solution include:

- Navman Wireless' OnlineAVL2 desktop-based, real-time vehicle tracking and reporting platform
- Qube vehicle-mounted satellite tracking device
- Customer's choice of Mobile Data Terminal (dispatch and messaging) or M-Nav (dispatch, messaging and navigation) units for in-vehicle use

The solution utilizes KORE Telematics' GSM/CDMA network to provide reliable connectivity as well as network airtime cost economies without the typical minimum use levels.

Each bus is equipped with a Qube device as well as a Mobile Data Terminal (MDT-860) to enable two-way messaging between dispatch and drivers. The OnlineAVL2 software is deployed in the dispatch center.

## Key Results

By adopting this M2M solution, The Provider reduced radio dispatch, augmenting it with a GPS-based, real-time vehicle tracking system for dispatch and routing purposes. The Provider has achieved substantial benefits through the additional functionality and comprehensive reporting of the tracking software including:

- 50% reduction in the time required to route the right bus to the location through use of Navman Wireless' GPS vehicle tracking, integrated software, and ability to send dispatch instructions to the driver's Mobile Data Terminal with a simple click.
- Related time savings achieved by messaging drivers on the Mobile Data Terminal located on the dashboard if a student does not need to be picked up on a given day, eliminating wasteful driving and manual exception handling.
- \$400,000 annual savings reported by reducing driver overtime – and virtually ending disputes on billable hours – in part through use of virtual perimeters set up around drivers' homes and automatic logging of drivers in and out as they turn their vehicle ignition on and off.



“The Provider is an excellent example of a company using Navman Wireless products to provide insights to optimize fleets. They’ve harnessed the power of our analytic reporting to identify areas of inefficiency or unsafe practices and turned bad habits into good ones resulting in safer drivers, improved customer service and a monthly savings of \$33,000 across 178 vehicles.”

Renaat Ver Eecke  
Vice President,  
General Manager,  
North America,  
Navman Wireless

“At KORE Telematics, we strive to provide not only reliable network services, but also the tools our customers require to more effectively manage their day-to-day operations. We are thrilled to enable companies like Navman Wireless and The Provider who – in this day and age of the connected world – are using M2M technology solutions to ensure the safety of children.”

Alex Brisbane  
President and COO,  
KORE Telematics

- Improved on-time performance through more efficient routing.
- Rapid response to bus breakdowns
  - Critical for special needs children
  - Via real-time vehicle tracking capabilities.
- Increased child safety achieved by monitoring driver speeds and messaging drivers to address speeding problems.
- Proof of student transportation is required to satisfy the Individual Education Plan (IEP) created for special needs students, using “Activity Reports and Replay a Day” features to show bus routes and stops.

**About Navman Wireless**

Navman Wireless is a market leader in providing fleet tracking solutions. We’ve helped 8,500 customers track more than 110,000 vehicles globally to improve productivity and reduce costs. Using GPS technology as the backbone, Navman Wireless provides products and services enabling companies to track, monitor, measure and communicate with their equipment assets.

**About KORE Telematics**

KORE Telematics is the world’s largest wireless network provider focused exclusively on the machine-to-machine (M2M) communications market. Companies in virtually every industry are implementing M2M solutions to achieve productivity gains, cost management, environmental improvement, and to expand customer services. KORE delivers GSM and CDMA services to ensure the greatest possible reliability and coverage as well as valuable tools that enable our customers to effectively manage their daily operations.

To learn more about what KORE can do for your M2M business needs, please visit [www.koretelematics.com](http://www.koretelematics.com) or email [sales@koretelematics.com](mailto:sales@koretelematics.com) or call us at 1.866.710.4028.

