versatrans®

a tyler school solution

Transportation Management

There, right when you expect us.

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tyler
technologies

Each morning during the school year,

children across the country wait at stops for their buses to take them to school. School districts have the responsibility to provide students with timely, safe transportation to and from school. From the location of a stop, to the length of time on the bus, to the mechanical road-worthiness of each vehicle, the district's transportation team is responsible for making sure everything works seamlessly — while maintaining efficiencies and managing the bottom line.

Tyler's Versatrans® transportation management solution makes this easy.

And we are always there, right where you expect us.

The Leader in Student Transportation Management

Tyler has been in the business of transportation logistics since the early 60's. In 1984 the need arose for a computerized routing solution to help schools create efficient, cost effective route plans. This was the beginning of the software you know today as Versatrans®. For more than 30 years, Tyler has focused its domain expertise and thought leadership toward the sole purpose of providing the most intuitive, most innovative and most efficient transportation management solution to school districts of all sizes across the country.

We are the only company offering a complete student transportation management solution, one that helps districts improve every aspect of the transportation process — or focus on just one piece. Each installation is customized to fit the district's unique needs and clients have access to our world-class support services.

By providing transportation officials with access to the data they need — such as stop location, student time spent on the bus, each student's assigned school and vehicle mechanics — our software helps your district effectively manage your students' transportation, ultimately helping to ensure student safety.

Versatrans manages data about 14 million students.

Of those, it is used to organize the transport of more than seven million students on more than 100,000 vehicles to 24,000 school buildings in 1,897 school districts that reside in 47 states and seven provinces.

Creating Efficiencies

Today's school districts are faced with budget cuts and fewer resources. Teachers, staff and administrators alike must focus on student achievement, meeting citizen needs and ensuring student safety — all while tightening budgets and maximizing staff contribution.
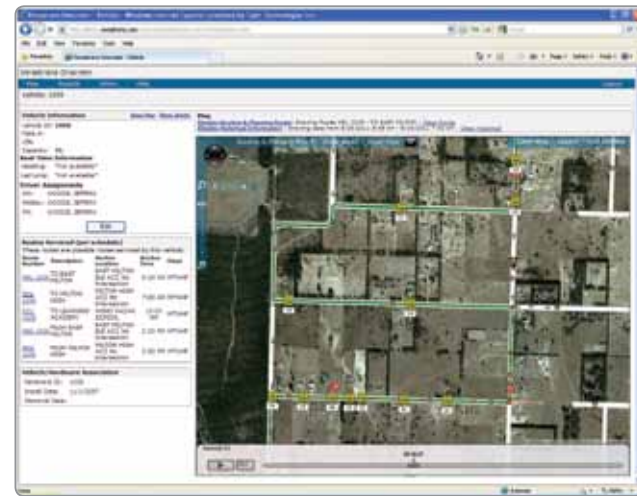
By investing in Tyler's Versatrans transportation management solution, you are investing in a system proven to supply districts with a real return on investment. Tyler's solutions are designed by industry professionals to inherently improve your operational process to create efficiencies and cut costs. Districts across North America experience a considerable reduction in expenses tied directly to the efficiencies gained after implementing one or more of our transportation management products.

Creating efficiencies is the best way to reduce costs. Our comprehensive solution allows you to consolidate bus stops, reduce mileage and decrease expenses associated with fuel, parts, payroll and more. By making these changes, your district can easily reduce fuel consumption, decrease wear and tear costs, reduce driver time and eliminate costly repairs and mechanic overtime.

But that's not all our solution can do. Versatrans makes finding areas for cost savings easy by enabling continual monitoring and adjusting of your district's transportation function year after year. How? By giving you the power to improve operations by understanding the operating cost of each route in your district and each vehicle in your fleet. For example, the most inefficient vehicle in your fleet might not be the oldest. Versatrans allows you to identify that inefficient vehicle so you can remove it from your active fleet or put it on a less demanding run. Not only will you increase efficiency, you will also improve the level of service offered to your students and citizens.

"By our figures, we save about $106,000 yearly [using Versatrans]."

— **Denise Delaney,** Transportation Manager
Chester County Intermediate Unit, Pennsylvania

Features at a Glance

- Advanced hypothetical route analysis and reporting — create and analyze hypothetical routes using parameters such as desired and maximum loads and times, and quickly compare the budget impacts of different routing scenarios

- Planned versus actual route path reporting — visually compare how a route is being run to the planned route to ensure drivers are not adding unnecessary miles

- Idle alerts — know when drivers are idling to correct and eliminate manageable idling time

- Streamline operational process — automate processes, eliminate data entry time and minimize the overall effort of performing day-to-day tasks

Providing Tools for Success

School districts are responsible for providing every child with the opportunity to succeed in the public education system. For the transportation department, this means providing students with safe transportation to and from school, as well as on field trips and to special activities.

Our Versatrans transportation management solution works for all areas of your district's transportation department to ensure these responsibilities are met:

Routers make edits or build routes from scratch in seconds. Easily manage special transportation requests through day variant routing. Feel confident that stop times are accurate because all important data, such as speeds and turning restrictions, are stored in the map.

Dispatchers know where every vehicle is at all times as well as where and when each student gets on or off the bus. Receive alerts when vehicles leave the bus yard and arrive at school, and have access to transportation information on every student with a click of the mouse.

Driver trainers access reports that identify each driver's driving behavior such as harsh breaking, accelerating rapidly and making sharp turns. Utilize on-board buzzers to alert drivers if they are idling too long or speeding, and easily generate a driver score card to view each driver's progress without having to perform ride-alongs.

Field trip schedulers perform less data entry by entering all vital information into your database over the internet. District policies regarding field trips are built into the system so only valid trip requests will go through. Use user-defined pick lists to assign drivers and vehicles to trips. Also use Versatrans to take the guess work out of estimating trip costs.
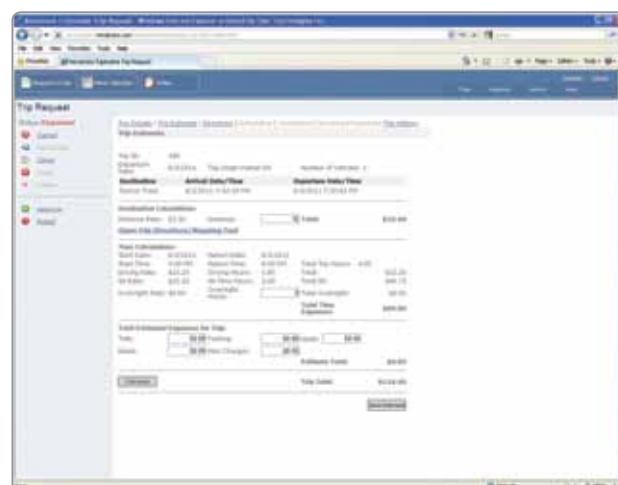
Mechanics receive email or text messages with reports on each vehicle. Keep a close eye on fuel consumption and vehicle operations to understand the true cost of operating each vehicle. When the time comes to retire a bus, use this knowledge to recommend retiring the vehicle that costs the most rather than just the oldest one in the fleet.

Transportation Directors utilize the reporting functionality in Versatrans to provide information requested by school administration, the state or the province in an easy-to-read format; monitor key performance indicators to ensure efficient operations, spot trends and identify anomalies in data; monitor drivers, buses and route activity; develop bus schedules and map optimal routes; and perform boundary analysis and set up plans for future growth in the district.

Superintendents & Business Managers gain insight into the operations of a significant budgetary cost center for most districts. Anticipating costs and analyzing how to better utilize an existing fleet helps budget for the future. Feel confident that your transportation departments are running safely and efficiently.

"Significant savings have been realized in staff time both by the transportation office and by the schools."

— **Shelley McLeod,** Transportation Manager
School District 18, New Brunswick

Route Smartly, Route Safely

Versatrans solutions provide our clients with the most intelligent set of tools for the district to analyze route scenarios and offer their constituencies exceptional transportation services.

As we see it, we take students, not bus stops, to school. All of our products operate from this premise. Our software knows which school the student should attend and only lets the student get on the bus that is going to that school. Building a route around the student, factoring in all of the logistics and then assigning stops is the way that Versatrans software generates the most efficient and cost-effective route plans.

Having an efficient, cost-effective route plan is important — and so is providing students with a safe ride to and from school. This includes locating and placing bus stops where children don't have to cross or walk along busy roads; ensuring vehicles are running in top condition; and confirming that drivers are practicing safe driving habits.

Versatrans is the only solution available with smart map technology. This advanced technology allows all of the important data pertaining to a segment of road to be stored within that segment in the database. You teach the map how your district is laid out by setting the average traveled road speed by direction and time of day; by identifying which streets you deem safe to cross for different age students; by locating areas for safer turns; by establishing hazard areas to prevent students from being identified as walkers; and more. By storing this data in the map, the information only needs to be entered once and then is used globally for every student that falls within the parameters.

Sexual predator tracking functionality is another way that Versatrans can help you create safer bus stops. Known sexual offenders are entered into the system by the district and then their last identified location is visually displayed on the map so you can ensure children are not put in harms' way by being placed at a bus stop within a predetermined distance from an offender's residence.

Additionally, embedded Google Earth™ functionality allows users to virtually drive routes to help you ensure bus stops are open without visual obstructions that could pose a danger to students waiting for their bus.

With all of this data put in place, you have the tools to assign bus stops and routes that take account of important safety considerations connected with the transportation of your students.

Features at a Glance

- Advanced predator tracking — load and track offenders' address information, and prevent bus stop creation within user-defined distances

- Route view in Google Earth — export routes into Google Earth for a satellite view of the route path

- Identification of hazardous road segments — identify sections or whole roads that are hazardous for students to walk along and/or cross to get to a bus stop or to walk to school

"I fell in love with Tyler's Versatrans Routing & Planning when I first saw it at Fort Dodge, Iowa. It was literally fool proof."

— Chuck Anderson,
Transportation Director
Sioux City Community School
District, Iowa

Features at a Glance

- Per-student load time adjustment — for more accurate stop times, automatically add time to a route based on additional load time needed for individual riders

- Visual aids for designing special needs routes — quickly identify on the map if a bus meets a student's needs

- Detailed driver directions — include a variety of information such as rider photos, transportation comments, medical and emergency information, special accommodation information and more

- System alerts — notify identified personnel at login when routes fail to meet riders' special needs
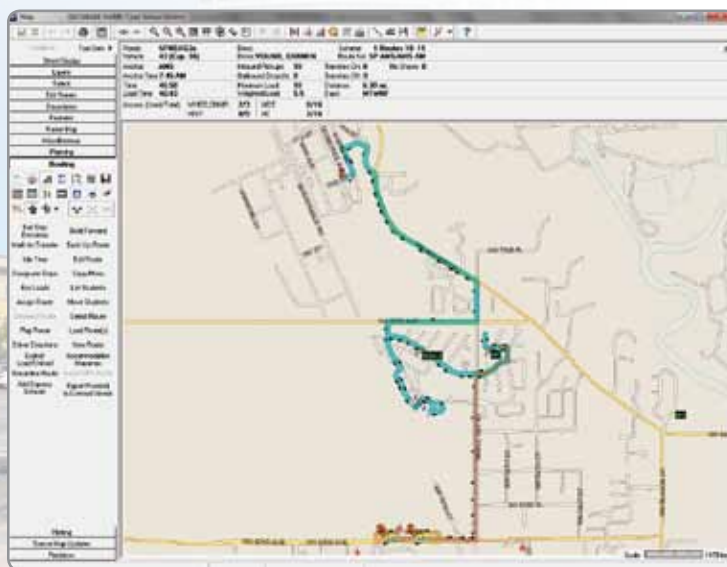
Special Needs Doesn't Mean Special Software

The transportation of special needs students can take up a large piece of a district's transportation budget. Districts must track each student's Individualized Education Programs (IEP) and provide the right equipment and vehicles. In addition, it can be difficult to identify efficient routes for special needs students when each must be picked up at the curb and then taken to multiple locations stretched across the county and the state.

Versatrans Routing & Planning has unsurpassed functionality for managing special needs student transportation, eliminating the need for separate applications and databases. Route your special needs students along with the rest of your student population with our powerful routing application.

Designed to reduce the administrative burden associated with transporting students with special needs, Versatrans enables transportation departments to comply with IEPs, provides a way to track special equipment and vehicle needs, and allows quick response to parental questions and concerns. Simplify special needs routing with Versatrans so you can focus on daily operations and save time and money.

"With this program we can account for every student at every school on every run."

— **Colleen Murphy,** Transportation Director

Austintown Local Schools, Ohio

Allowing Mechanics to Work Smarter, Not Harder

Today everyone and everything seems to rely on a computer, even the vehicles in your fleet. So why should a mechanic spend valuable time trying to figure out what might be wrong when the vehicle's computer can simply tell you?
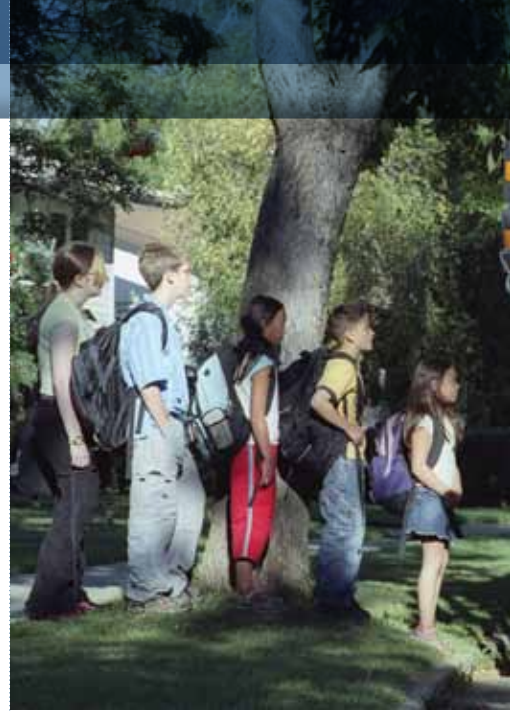
Tyler's Versatrans solution offers school districts functionality that is unique to the industry. Our Tyler Telematic GPS application is the only solution available that can produce cost savings in the areas of productivity and route efficiency, predictive maintenance, optimizing spare fleets, driver training and risk management, and regulatory and environmental compliance.

Coupled with our Versatrans Fleetvision product, Tyler Telematic GPS takes the guess work out of monitoring the health of your fleet. No longer do mechanics have to wait for a driver to come to them complaining of a "funny noise" when they accelerate or have to run around trying to jump a bus because the battery was found to be dead 15 minutes before the bus is scheduled to go out on route. Through state-of-the-art on board diagnostic (OBD) reporting, potential issues can easily be identified before they occur.

Tyler Telematic GPS monitors and records fault codes generated by the bus' computer. When a fault code is sensed, Tyler Telematic GPS can automatically create a work order request in Fleetvision. For example, if a battery falls below the minimum voltage threshold set by the district, the vehicle's TTGPS unit can create a work order request to inspect the battery. At the same time, it can send an email or text message alerting identified personnel to the issue, providing ample time to proactively maintain the bus.

"One reason I purchased Tyler Telematic GPS was to have a more pro-active vehicle maintenance process. The integration between Telematic GPS and Fleetvision will give me that."

— Mike Kelly, Transportation Director
Regional School Unit #14, Maine

Features at a Glance

- Engine condition alerts — user-defined alerts can be sent regarding battery voltage levels, low fuel, oil pressure and more

- Automatic creation of work order requests — transmit and automatically create work order requests for engine faults without manual entry

- Centralized data management — access data on all aspects of your shop for easy administration

- Fuel and part inventory tracking — know what parts and fuel you have on hand and what needs to be replaced for efficient inventory budget use

Anticipating Needs

Anticipating the needs of a fluctuating population can be challenging. Some years the student population grows exponentially; other years it remains stagnant or decreases — all of which impact bus routes. School districts need to remain flexible while having a way to anticipate future changes.

With its powerful map and forecasting functionality, Versatrans can help you plan for the future. These advanced tools help you analyze how changes may impact your current building and route configurations, as well as provide the opportunity to make adjustments to those plans without affecting your current operation. You can even advance the existing student population from year to year and add in future student counts through the use of local census data. Versatrans also allows you to set up multiple scenarios based on anticipated student enrollment and location of residence. Analytical reporting tools enable you to run reports on estimated counts and cost of operation, which can then be used to present study findings and recommendations in a professional format to administration, board members and the community.

Ultimately, by understanding what your student population may look like five, even ten years down the road, you can plan how to better utilize your existing fleet, anticipate when vehicles may need to be replaced or added, and get an idea of what your future driver count may need to be. The result: the ability to budget for the future with confidence so you can remain responsive to the needs of your citizens.

> "[Route planning] really is a puzzle to solve and it has to fit together just right for things to run efficiently. There are so many, many variables. We couldn't do it without Versatrans."
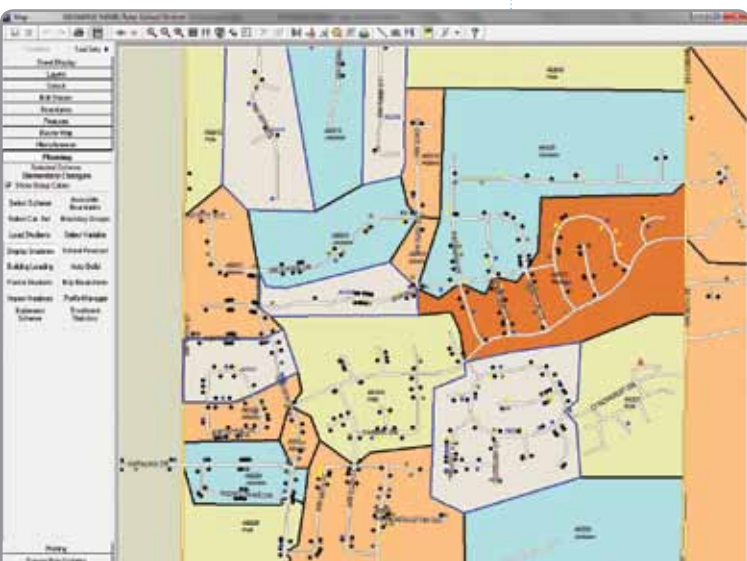>
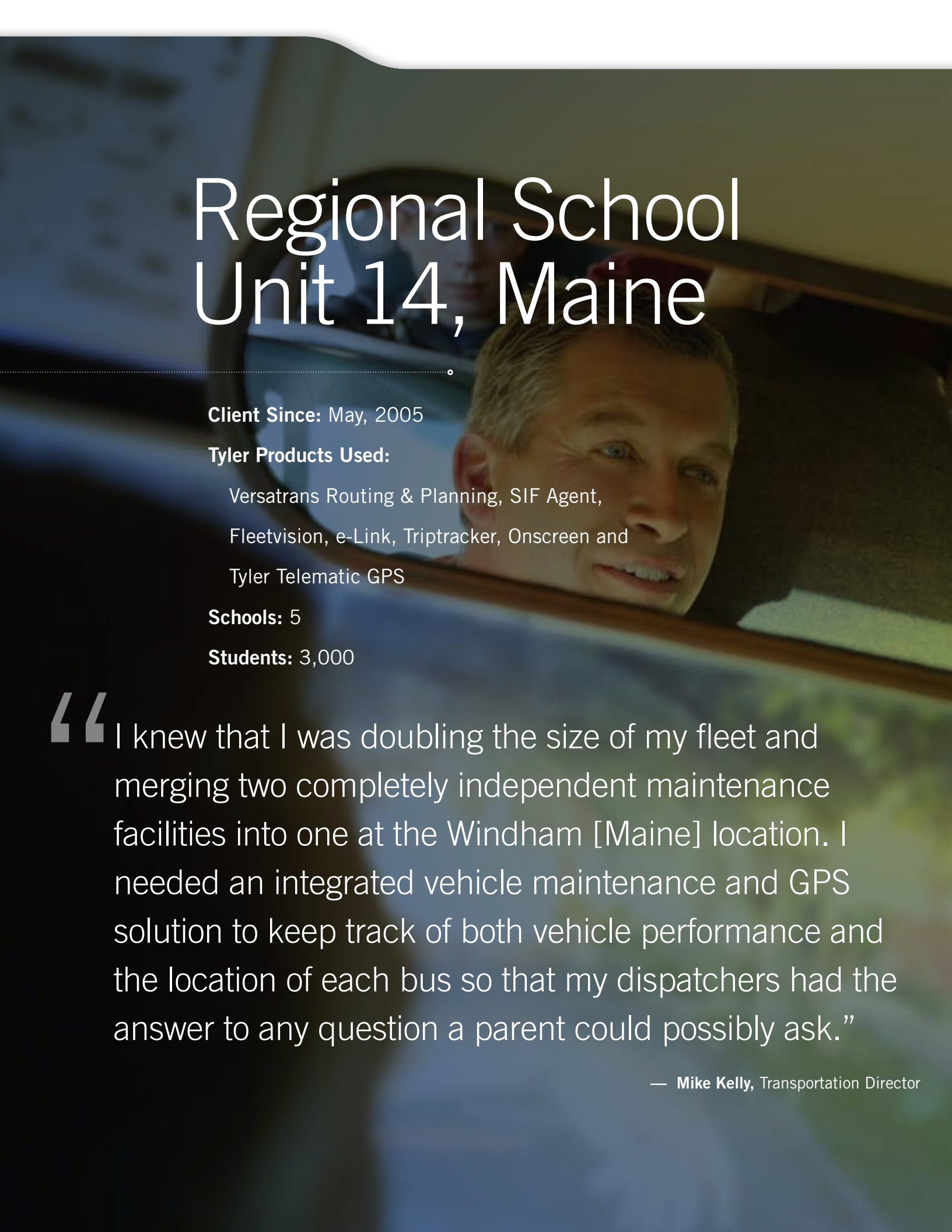> — **Ken Willms**, Transportation Supervisor
> Duluth Independent
> School District #709, Minnesota

Features at a Glance

- Student forecasting — view future student population scenarios by using census data and your existing student database

- Multiple scenario planning — create multiple building and routing scenarios using forecasted student data, then analyze operational impact

- Reporting and printed maps — print out reports and maps to aid in presenting your work to administration, board members and the community

Regional School Unit 14, Maine

Client Since: May, 2005

Tyler Products Used:

Versatrans Routing & Planning, SIF Agent, Fleetvision, e-Link, Triptracker, Onscreen and Tyler Telematic GPS

Schools: 5

Students: 3,000

" I knew that I was doubling the size of my fleet and merging two completely independent maintenance facilities into one at the Windham [Maine] location. I needed an integrated vehicle maintenance and GPS solution to keep track of both vehicle performance and the location of each bus so that my dispatchers had the answer to any question a parent could possibly ask."

— **Mike Kelly,** Transportation Director

Challenges:

- Consolidate two independent school districts into one regional school unit

- Provide proof of measurable cost savings from the merger of school districts

- Track vehicle performance at multiple locations

- Ensure positive relationships with parents who would be experiencing lots of change

Benefits:

- Quick and accurate new route creation

- Ability to compare a vehicle's path to the planned route and know where buses are, whether or not they are on route, and whether they are running on time

- Ability to know each driver's habits and access to alerts if drivers break any exception rules such as idling too long, braking too abruptly, accelerating too fast, entering unauthorized zones, or leaving the bus yard after hours or on weekends

- Identification of 15 minutes of unnecessary driver overtime when it was discovered that several drivers were congregating daily

- Discovery of buses idling for extended periods of time or speeding through the bus yard

- Online access to bus stop times and locations for parents, which provided reassurance during a time of change

- Reminders sent by each vehicle when it is time for scheduled maintenance, when it is low on engine coolant, or if it is overheating

- An integrated transportation management solution from one trusted vendor with decades of experience in student transportation

Dedication to Great Service

At Tyler, everything we do is built around our clients and meeting their needs. That includes our comprehensive client services that are regarded by many as the best in the student transportation management industry.

Consulting

Put our decades of transportation knowledge to work for you. Our consultants can manage district planning, efficiency studies and more for you, or simply assist as you complete these tasks in house. They will guide you through any transportation-related project and can even assist in presenting facts and plans to district administration, school boards and the community.

Implementation & Map Building

Tyler has spent decades perfecting and streamlining the implementation process of our applications to ensure a successful installation with minimal effort required from the school district. A qualified implementation professional assigned to your district works with you and your team to set up maps and the database to your specific needs. No matter the scope of the project, we are there every step of the way.

Training

Proper training is vital to getting the most out of your transportation management software. Districts receive world-class training as part of their Versatrans purchase. Additional training is available both onsite and online at any time. From seminar-style to one-on-one instruction to annual user conference, our training options are flexible to your districts' needs and schedule. Through our Versatrans Assist program we will even send a Versatrans expert to your district to work right alongside you to get the job done right.

Support

Clients agree: our technical support team is the best in the industry. We hire skilled personnel and invest further in their skills, which is why every one of our support technicians holds a Help Desk Institute (HDI) certification. The majority of our support calls are answered live by one of our highly trained technicians in our toll-free call center. Clients also have access to an extensive knowledgebase that provides helpful step-by-step instructions and video demonstrations to help you get the answers you need.

Routing & Planning, Limited Edition

Versatrans Routing & Planning, Limited Edition is the software solution of choice for pupil transportation operations of limited enrollment that are seeking a routing solution at a manageable cost. With many powerful features such as scheduling future route changes, day variant and special needs routing, as well as extensive reporting capabilities, this advanced application means smaller operations don't have to sacrifice power for price.

Routing & Planning, Standard Edition

Districts of all sizes use Versatrans Routing & Planning, Standard Edition to meet their school bus routing and district planning needs. More than one thousand users have realized the benefits of efficiently managing vehicle costs and anticipating demographic changes in school communities. In addition to industry-leading software, Versatrans also provides unmatched service focused on building long-term relationships, proven by our 98% client-retention rate.

Onscreen

By leveraging GPS information with Versatrans Routing & Planning route data, Versatrans Onscreen® offers accountability for the drivers and aids in decision making for increased efficiency in transportation departments. Parents, guardians and students also see the value of Onscreen through the use of Versatrans My Stop, a mobile Web application that displays the current location of the bus and its estimated time of arrival at the stop. Versatrans Onscreen also offers a flexible design that accepts GPS data from multiple sources.

e-Link

Versatrans e-Link® is a Web-based solution that provides fast address lookup or student data entry into your Versatrans Routing & Planning database. Find answers to common questions regarding school attendance, bus stops and routing information in seconds and publish this information through your website for parents to view, eliminating time-consuming phone calls. The solution also houses a role-based visual calendar that can be utilized internally for specific department calendars or as school/district calendars for parents, guardians and students. Versatrans e-Link is a powerful tool for communities and school districts alike.

Incident Management

Tyler Incident Management is a Web-based solution that provides the tools necessary to easily record, track and manage all incidents that occur at school and on the bus, including bullying, accidents, vandalism, disciplinary and medical incidents. The system can be set up to act in accordance with a district's specific policies and procedures that are already in place, allowing school officials to follow a consistent process every time.

Pay to Ride

Versatrans Pay to Ride is the only transportation payment solution that is part of a complete transportation management package. From managing accounts to making payments, this solution provides a simple Web-based interface for a school district and the families of their students. Because of its integration with Routing & Planning and e-Link, Pay to Ride already knows who each student is. Parents and guardians will only need to log in with their e-Link username and password to be able to select their student's transportation plan and make the necessary payment.

Fleetvision

Versatrans Fleetvision® is a fleet management software solution that provides managers with accountability, clarity and organizational control over their shop and fleet. Inventory management, part core tracking, preventive maintenance plans and employee certification tracking are just some of the elements that make Versatrans Fleetvision the most comprehensive fleet management software package on the market today.

Triptracker

Versatrans Triptracker® is a Web-based solution for managing all aspects of the field trip process, from the initial request through invoicing. With many powerful features such as automated driver selection and a user-defined approval process, Triptracker allows a school district to save hours in the day. This application comes ready to integrate with Versatrans Routing & Planning and Tyler's Munis® financial management solution at no extra cost.

Tyler Pulse

Administrators need a solution that can take data from virtually any database in their district and present the information in one format, providing an in-depth view of student progress, comparisons, achievement and success. Tyler Pulse, Tyler's information warehouse, does just that, transforming data-based decision making into information-based decision making.

SIF Agent

The Versatrans SIF Agent™ enables districts to reduce redundant data entry and improve data integrity. By automating the exchange of information between information systems within a district, the Versatrans SIF Agent ensures that transportation data is consistent with other sources. A long-time supporter of the SIF® initiative, Tyler was the first software vendor to have a product receive SIF certification.

Telematic GPS

A GPS hardware solution for your yellow and white fleet vehicles, Tyler Telematic GPS is the first product to produce a measurable ROI by providing a complete view of a vehicle, driver and engine. In addition to providing alerts for red and yellow flashers, stop arm use and other triggers, Telematic GPS sends reports on and decodes information from the vehicle's on board diagnostic (OBD) computer. Through the use of g-force monitoring, driver trainers can quickly identify un-safe driver behaviors and address them before it becomes an issue. Telematic GPS is completely integrated with Fleetvision, Onscreen and Routing & Planning.

Student Tracking

With Versatrans Student Tracking you can achieve greater accountability and provide piece of mind to parents and guardians. Dispatchers have instant access to information in real-time. They can track where and when each student gets on and off the bus, and easily identify when a student gets on or off at any point whether it's their stop or not. For hardware, student tracking utilizes a contactless card reader and clamshell smart cards. Students need only to present their card to the reader to be confirmed as entering or exiting the bus.

Software that thinks like you do.

At Tyler Technologies (NYSE: TYL), we have a single mission: enable local governments to be more efficient, more accessible and more responsive to the needs of citizens. That's what we do. And that's all we do — in partnership with more than 9,000 clients, including local government and school offices throughout all 50 states, Canada, Puerto Rico, the U.S. Virgin Islands and the United Kingdom.

Tyler Technologies is a leading provider of information management solutions and services for the public sector — and Tyler is the largest company in the country solely dedicated to providing software and IT services to the public sector market.

info@tylertech.com | 1.800.433.5530 | www.tylertech.com

tyler technologies

Empowering people who serve the public®