tyler technologies

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Elizabeth McAlister
Mount Diablo Unified School District
1936 Carlotta Drive
Concord, CA 94519

Dear Ms. McAlister,

Please be advised that Tyler Technologies, Inc. is the sole-source provider and developer Versatrans Routing & Planning™, Versatrans Fleetvision™, Versatrans e-Link™, and Versatrans Triptracker, software and complete GPS solution for school transportation offices. Tyler's Telematics Suite is the sole-source provider for the hardware and software that integrate telematics data with the Versatrans Routing & Planning software already in place in Mount Diablo Unified School District. The Telematics Suite offers the Tyler Telematic GPS hardware and Versatrans Onscreen software to integrate GPS data with Versatrans Routing & Planning data, Versatrans My Stop mobile application for parent notification of the arrival time of their bus, and the Versatrans e-Link software which provides online lookup of transportation information for developed specifically for K-12 routing and planning. This includes such unique features as:

- Versatrans Routing & Planning™
    - o Fleet Scheduling – Evaluate Fleet™ is a useful tool for planning and budget projections.
        - ▪ Evaluate Fleet uses transportation financial parameters to attach dollar amounts to the time and distance stored for each vehicle in use. You can create multiple Fleet Evaluation Scenarios to compare these to your original scenario. When completed, Versatrans Routing & Planning displays a screen that shows daily and annual costs for each vehicle in the fleet as well as annual totals for the entire fleet.
    - o Bus Loads Report
        - ▪ Select a point along an existing active route and view a bus report of the students that are assigned to be on board that bus at the exact point selected. Conversely, view a bus report of the students who are assigned to be on this route, but not currently on board because either the bus has not reached their pickup stops (inbound), or has already dropped them off.
    - o Bus Metrics Report
        - ▪ A comprehensive audit of loaded and unloaded miles and time for every queried route.
    - o Provides a user interface within Versatrans Routing & Planning that allows school district personnel to perform a map update from source map without losing your own map customization.
    - o Family ID functionality
        - ▪ Identify siblings living in the same house. Versatrans Routing & Planning uses this field to facilitate sibling entry and record changes, limit the number of mailings to families, and aid in locating siblings on the Map.

- o Scheduler and Calendar: Integrates student change requests with a calendar. This unique function allows for storing the date(s) for a change, and having the system automatically implement them at the appropriate time.
  - A change in address may be scheduled and automatically changed for the appropriate date.
  - A change may have both a beginning and an end date, such as a Special Needs student attending a program that only lasts for a short time.
  - A rotating pattern of change may be scheduled. For example, a student may rotate a MWF at the mother's residence/TTh at the father's one week with TTh at the mother's/MWF at the father's in the following week.
  - Routers may work on next week's routes while all users see the appropriate schedule for the current week. The next week's routes are automatically moved into current status over the weekend, with a copy remaining so that routers can continue to get their work done in advance.
  - o Display both School of Residence and School of Attendance on Student File
  - o Ability to route subsets of Special Needs students, based on particular user-entered codes.
  - o Use of building capacity and classroom load as a variable in Boundary Planning
  - o Route Filtering/Searching Tool to view any combination of bus routes together.
  - o Ability to create/edit multiple route schemes (This year's routes, Next year's routes, Summer routes, etc) without having to exit the system.
  - o Displaying a list of buses that pass by a point or a bus stop on the map. You can enter and search on time parameters to refine the list.
  - o System Auditing maintains an audit trail for important and administrative actions performed by users of Versatrans RP. Audit entries are created whenever a user adds, changes, or deletes records within key areas of the system.
  - o Create customized versions of driver lists. These may be created for specific types of routes and are available to all users.
- Versatrans e-Link™
  - o Seamless integration with the Versatrans Routing & Planning database
  - o Web-based application for ease of access
  - o Scheduler and Calendar:
    - Read only and/or editable calendar function to show all upcoming changes in the Versatrans e-Link application
  - o Ability to create groups for specific schools so that the administrators may look up students for their school only
  - o Ability to create logins for parents to access the most up to date busing information for their children
- Versatrans Fleetvision™
  - o Ability to share vehicle information with the Versatrans Routing & Planning application allowing for a single point of data entry
  - o All-in-One application including:
    - Parts, Part Cores, Purchase Orders, Parts Shipments, Vendors, Customers, Work Orders, Work Order Templates, Vehicles, Employees, Employee Certifications, Fuel Logs, Fuel Inventory, Fuel Shipments, and more
  - o Robust reporting system with the ability to create customized reports using Versatrans Report Writer
  - o Ability to integrate with Tyler Telematic GPS and Zonar EVIR system

Tyler Telematic GPS is solely offered by Tyler Technologies, providing the following benefits:

- Tyler Telematic GPS is the world's only small form factor (.91 X 1.97 X 2.95 inches) expandable GPS hardware. The patented IOX technology allows low cost and easy expansion.
- With IOX technology, multiple 3rd party devices can be "piggybacked," thereby eliminating a bottleneck created by devices having only one serial port.

- Integrated on-board alerting: a buzzer sounds when a driver gets close to exceeding predefined thresholds. This is helpful in changing driver behavior.
- Tyler Telematic GPS GO device supports legacy as well as late model engine status Protocols such as:
  - CAN: ISO 15765
  - Diesel Engines: SAE J1939 & J1708
  - OBDII and most older OBD legacy protocols
  - Adapter harness available for GM J2411 protocol vehicles and heavy duty vehicles when needed (driver seat belt)
- On many Thomas C2 and IC Bus vehicles, the TTGPS GO device automatically tracks and reports activity related to directional signals, yellow and red overhead lights, reverse, park brake and foot brake. For other school bus models the IOX technology allows for the capture of the same I/O's.

- The Tyler Telematic GPS GO device utilizes a 3-axis accelerometer for low-voltage digital output linear MEMS, housed in an LGA package. Full scale (±2g, ±8g and ±16g), capable of measuring accelerations with an output data rate of 100 Hz or 400 Hz.
- The accelerometer allows for measurement and triggers reporting hard braking, rapid acceleration, harsh turns, and also triggers a 72 second automatic upload in the case of an accident level event.
- Intelligent Data Transmission: Rather than the typical fixed data polling rate, Tyler Telematic GPS intelligently sends data according to need. When the vehicle is on a straight road, the polling rate is lower (less frequent), as or when anything occurs that needs reporting it will report as needed. All data is collected in one second increments. This unique intelligent reporting keeps the total data transmissions low, allowing crucial details to be available when you need them.
- Auto-notifications
  - The engine diagnostics not only read the data, but compare the data to preset thresholds. When those metrics are exceeded, indicating an issue, the unit automatically sends an email or other notification to the designated person(s).

Tyler Technologies is the sole provider of the Versatrans Onscreen software, which (combined with the MyGeotab software included with the Tyler Telematic GPS units) offers the following unique benefits:

- Driver behavior, route information and bus information alerts:
  - Head off potential problems by configuring the system to collect data on and alert you to key driver, route and vehicle information through screen and audible notifications.
- Combines Versatrans Routing & Planning data with GPS information to provide:
  - Real-time or historical comparisons of stop times and whether a bus performed a stop at that time and location.
  - On time reports for arrivals at schools
  - On time reports for departures from the yard.
  - A compliance report for buses crossing railroad tracks, noting whether the prescribed set of actions occurred.
  - An off-path report, showing the planned route path compared to the actual route path.
- Versatrans Routing & Planning integration:
  - Automatically generate routes in Versatrans Routing & Planning based upon GPS data collected by telematic hardware on the vehicles. In addition to the route path, those points for which a stop-arm event occurred can be

designated as stops in Routing & Planning. The imported route data will include information for a specified vehicle, on a specified day and time range.

- o Automatically generate new street paths in Versatrans Routing & Planning based upon GPS data collected from vehicles driving new streets in the district.

The Versatrans My Stop mobile app is solely offered by Tyler Technologies, and offers:

- Native iOS (Apple) and Android apps.
- The only application truly integrated with Versatrans Routing & Planning
- User and password controlled access to prevent unauthorized access.
- Single app allowing access to all siblings enrolled.
- Current location of the indicated student's bus, and the estimated time of arrival at the student's stop.
- Notification of events, such as delayed buses, school time delays due to weather, etc.
- If student scanning hardware is added, the data about the scans are sent to the app so that a parent would have confirmation that their student scanned on and off the bus, where, and when.

Versatrans Triptracker provides:

- The trip requestor uses a web form to initiate the trip request.
- Requestors can create an estimate the trip cost prior to submission.
- Approval paths are set by the District and approvers receive an email with a hotlink to the form the requestor filled out.
- A link to online Bing Maps provides the left/right turns and map for the driver.
- Automated email communication keeps interested parties informed of the process of the trip.
- Integration points with Versatrans Routing & Planning, including vehicles, employees, and buildings.

In addition, Tyler Technologies, Inc. is the sole source provider of Versatrans software and support including maintenance and upgrade releases, as well as 800-telephone support for the same.

If there are any questions, please call me at 800-433-5530, x 131868

Sincerely,

Mike Anderson
Sales Director