The Value of GPS and GPS-driven Applications from Synovia Solutions

What is GPS for Vehicle Tracking?

The Global Positioning System (GPS) from Synovia Solutions, LLC (Synovia) used for vehicle tracking, collects the school bus's location, speed, direction and date/time stamp from 24 active satellites orbiting the earth. This information is transmitted in real-time to a central computer connected to a private network or to the Internet. The GPS data is extremely accurate and can show the vehicle position on a digital street map that is correct to within 9 feet. Information about each bus run is stored in a database and management reports will show vehicle information for selected day and time ranges. The GPS tracking unit is installed on each bus and is wired into the battery so unlike a hand-held unit, it is not likely to get lost or stolen. The GPS unit also is connected to sensors on the bus, so that the system can detect when yellow or red flashers are used, when the engine is turned on and off, etc.

What are GPS-driven Software Applications?

Synovia offers a suite of software applications that leverage data that is provided by the GPS hardware. An Emergency Button is installed on each bus and connects to the GPS transceiver. If there is an issue on the bus, the driver can press the Emergency Button, and an alert is immediately sent to the dispatcher and includes the precise location of the bus to assist emergency responders. Alerts can also be configured to send out a message if a district mandated threshold for minimum engine idle time has been exceeded to minimize fuel waste and negative impact on the environment. Other software applications from Synovia streamline the information workflow to manage student transportation more efficiently.

What is the Impact of GPS for Bus Drivers?

Bus drivers benefit from GPS in several ways.

Safety and Security

GPS ensures that the district knows the precise whereabouts of each vehicle in their fleet at all times. Real-time information is valuable so that the district can be proactive in addressing a potential problem (weather front moving into the district) or to be able to react quickly when the bus's emergency button is activated.

Issue Resolution

The GPS system contains credible information that has proven to be invaluable to prove what really happened and to protect and support bus drivers. See sidebar article "GPS to the Rescue". Synovia GPS has proven that drivers were not speeding, were not near the scene of the accident, made a stop as planned, etc.

Operational Efficiency

GPS empowers the school transportation department to operate more efficiently. Wasteful spending due to hidden costs is eliminated and the transportation budget goes farther and helps to protect budget line items like driver salaries.

What is the Impact of GPS for the School District?

The primary reason that school districts purchase GPS is to control costs and to improve operational efficiencies. With accurate information about the routes that are actually driven, districts can optimize the

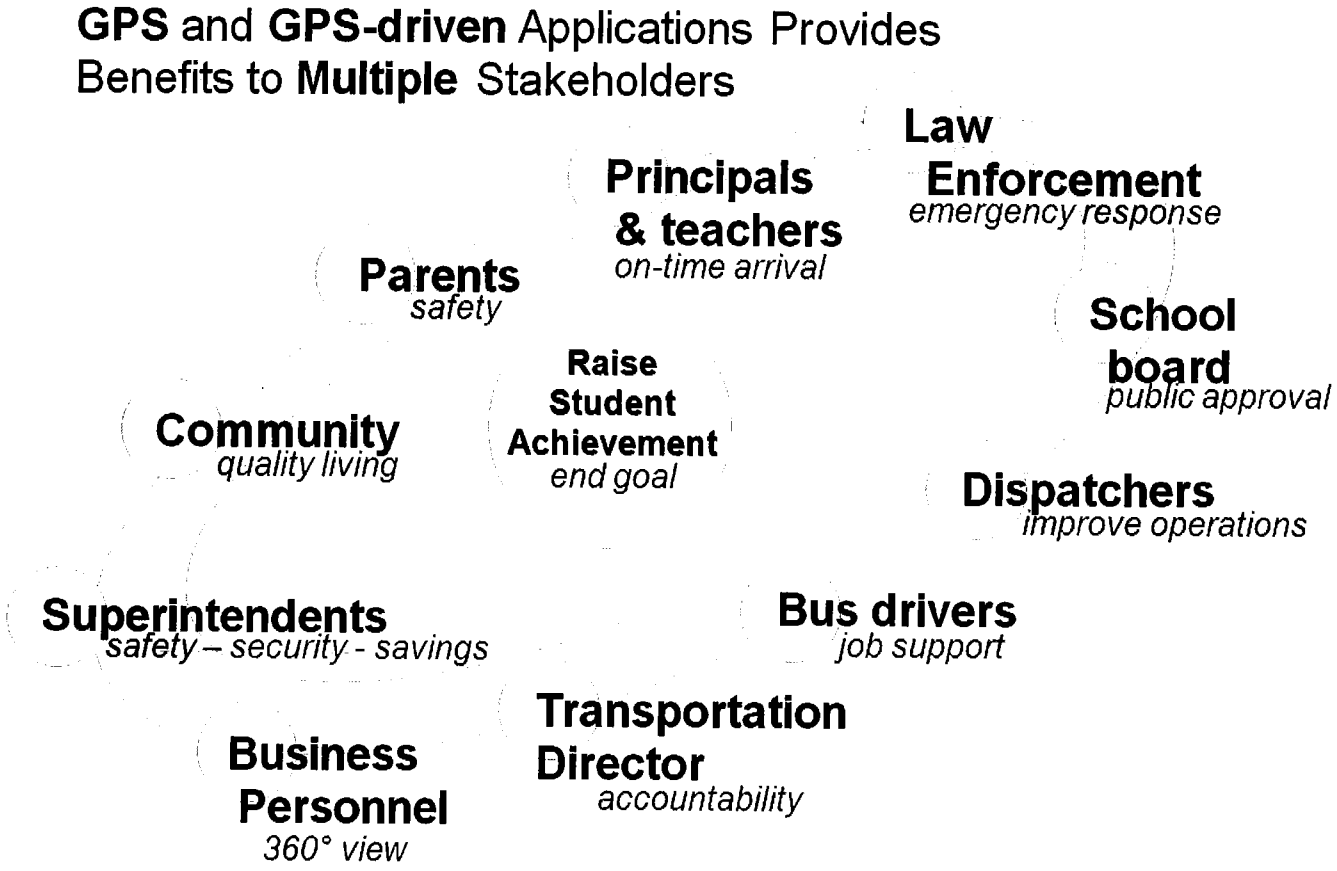
GPS to the Rescue

"Last Wednesday at 3:48 pm in the afternoon, an 84 passenger bus pulled up to a railroad crossing, the bus driver made a proper stop and then proceeded to drive through the crossing. Two railroad employees working nearby tripped the sensor that caused the stop arm to go down and crash on top of the bus. Fortunately, no one was injured, but the school bus was damaged. The railroad officials said that the driver did not stop as mandated by state law and drove through the crossing as the stop arm was coming down.

We reviewed the GPS data from Synovia Solutions and the system confirmed that the driver followed procedure and made a proper stop (sensors tied into the GPS unit) and the railroad was at fault for the accident. A lawsuit was avoided and we were able to get this driver back to work with the full confidence that she did the right thing. The driver is now a **big supporter** of GPS!."

bus miles that are driven and in the process reduce fuel consumption and related costs. GPS also provides a way to resolve issues quickly and to provide better services to the community.

- Drivers are better equipped to address issues onboard the bus (student with allergy who got stung by a bee, fight between two students on the bus, traffic accident, etc).
- Students are safer because drivers and dispatchers have GPS and always know the whereabouts of the bus.
- Parents get quick answers to their questions about student transportation.
- Transportation saves money on operations because they can analysis and optimize route plans based on the actual miles driven.
- Law Enforcement has precise location information when there is an emergency.
- School Administrators can manage the information workflow more effectively.
- Superintendents can make informed business decisions pertaining to student transportation.
- School districts can do better planning about student transportation based on historical information that is recorded every day.



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synovia solutions

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MUNICIPAL SYNSURANCE AGREEMENT

No: SYN-00000018

Customer Legal Name The School Board of Clay County		Customer Billing Address (If different)	
Address 3674 County Road 220		Address	
City Middleburg	County Clay	City	County
State Florida	Zip Code 32068	State	Zip Code
Location Contact: Robert Waremburg	Phone (904) 213-2249	Fax	Salesperson Joe O'Dell
Tax ID#	☒ K-12	☐ Other Municipal	
PO Number (if applicable):		PO Expiration Date:	

SILVERLINING SOFTWARE		EQUIPMENT LIST		
			TYPE	QTY
☒	Core Track & Trace			
☒	Comparative Analysis	LMU:	42 Series	240
☒	Time and Attendance	Tablet	Color MDT	240
☒	Student Ridership	Peripheral:	Wiring Harness	240
☐	Parent Portal (when available – estimated 2015/16)		Antenna	240
		Scanner for Student Tracking	Scanner	240

Carrier:	☐ Synovia	☒ Verizon	☐ Sprint	☐ AT&T
Installation:	☐ Synovia	☒ Customer	☐ Customer to be Trained By Synovia	

SPECIAL INSTRUCTIONS:

1. This is a 60 month agreement – 1st 12 months payments are deferred. Annual Payments beginning in the 13th month. Effective Date of this contract is July 1, 2015.
2. Pricing is $36.04 per vehicle per month, which would equate to $45.05 per month starting July 1, 2016.
3. Four equal payments$129,744 due annually July 1, 2016, July 1, 2017, July 1, 2018, July 1, 2019.
4. Term of agreement, 60 months starting July 2015 through June 30, 2020.
5. Delivery and Acceptance of Equipment in June, 2015.
6. Pricing based upon St. Lucie County RFP 15-08.

METHOD OF PAYMENT	RATE PER UNIT
☒ Annually ☐ ACH ☐ Credit Card	

PLEASE READ BEFORE SIGNING: THE CUSTOMER AGREES TO RENT FROM VENDOR THE EQUIPMENT LISTED ABOVE. THE CUSTOMER AGREES TO ALL TERMS AND CONDITIONS CONTAINED IN THIS RENTAL AGREEMENT. THE CUSTOMER AGREES THIS RENTAL AGREEMENT IS FOR THE RENTAL TERM INDICATED ABOVE AND CANNOT BE CANCELLED FOR ANY REASON, EXCEPT AS PROVIDED HEREIN.

AUTHORIZATION

Company Full Name (Please Print)	
Authorized Signature Date	Authorized Representative of Synovia Joe O'Dell
Authorized Signer's Printed Name Title	