



Education Solutions

Real Time Locating System (RTLS):

AiRISTA's RTLS platform integrates several popular technologies including RFID, RSSI, TDOA and GPS with two patented location determination technologies to provide one of the leading indoor and outdoor location tracking solutions available in today's marketplace.

Radio Frequency Identification (RFID)

AiRISTA offers RFID products and platforms that individually or collectively address a wide array of functionalities necessary for deploying a cost-effective RFID solution. AiRISTA's RFID technologies deliver a strategic advantage through integration of passive, active and semi-passive RFID technologies into a single "tag-technology-independent" approach.

GPS Locating & Security Monitoring

Additional security enhancement technology add-ons, such as GPS tracking/locating, can be easily incorporated with any of AiRISTA's Education solutions.

AiRISTA develops and delivers a wide range of turn-key solutions incorporating RFID, RTLS, GPS and related technologies that enables real-time management of mobile personnel, assets and resources to government and commercial clients. With our robust and comprehensive Track and Trace solutions, clients realize a reduction in resources, cost and errors while benefiting from increased efficiencies, productivity, safety and revenues.

((Background))

With over 50+ million children attending public and private elementary and high schools, student transportation buses (school buses) are likely the largest mass transit program in the U.S. Every school day, some 450,000 yellow school buses transport more than 24 million children to and from schools and school-related activities.

((The Need))

Enhancing the student population's safety and security, maximizing school's utilization of student transportation vehicular assets, and automating school's administrative workflow all depend on the availability of real-time and accurate location information.

((AiRISTA Solutions for Education))

- School Bus Tracking and Student Ridership
- Mobile Asset Tracking and Utilization
- Automated Student Classroom Attendance

((School Bus Tracking and Student Ridership))

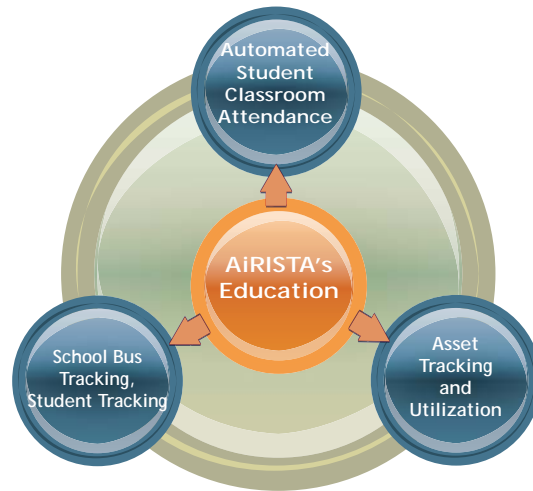
Schools' student transportation vehicles (buses) are equipped with GPS devices that communicate location information to servers that receive and process this raw data. Vehicles' precise location is determined and displayed on a map through the GIS component. This component will



provide the ability to zoom in and out, providing close-in and bird eye's view of the vehicles' location. Equipped with various sensors, the system has the ability to transmit additional data on the speed, direction and heading of the bus, opening/closing of the door and the stop-arm to name a few.

RFID readers located on the bus capture important information about student riders entering and exiting the bus through students' proximity identification cards. Once detected, riders are checked/verified against the authorized riders' rosters and an entrance/exit event is stored by the system logging the date, time and location. Data is immediately available for exception reporting/notification.

Ensuring that educational institutions operate efficiently in providing optimum student/staff safety while managing their assets, security and resources wisely



((Benefits of AiRISTA Technologies))

Teachers, administrators, fleet managers and parents are all among the beneficiaries of AiRISTA's solutions for Education. In addition to enhancing the safety and security of the student population, this ability to sense and obtain real-time information on student transportation and maintenance vehicles on campus and en route, bus riders and valuable assets, empowers stakeholders to:

- Sense, capture, notify and react to various events including those of the selection of unauthorized routes, unauthorized stops, unauthorized pick-ups and/or drop-offs.
- Better estimate and determine delays in departures and arrivals of the bus and student riders.
- Capture safety factors by sensing and recording speeding, driver seat-belt and proximity to hazardous conditions.
- Enhance the ability to pinpoint locations, respond to panics, and dispatch help in proximity in case of a bus breakdown or emergency based on real-time information.
- More effectively manage routes, stops, pick-ups, drop-offs and address maintenance service to achieve a better utilization of schools' vehicular assets.
- Automate and enforce classroom attendance policies and free up staff from time consuming and error-prone manual entries.
- Better estimate and determine delays in availability of key assets and personnel.
- Replay scenarios and report on historical events by tapping into a wealth of data stored on the back-end.
- Schedule and opt-in to receive notifications through voice, email and SMS of events of particular interest.
- Detect students "tailgating" while boarding/departing the bus or entering classrooms through advanced patented technologies.
- Locate and protect valuable assets such as those found in a typical science lab, computer equipment, etc.

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Tags may be available in different colors



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