

# Security solutions for K-12 student transportation

As technology innovates, parents expect higher quality, real-time information on their child's route to and from school. That's why major student transportation organizations are taking initiatives to upgrade their onboard systems.

## Passenger safety starts with the selection of the right hardware and software

Most student transportation systems lack the same diligent, unified security systems that are implemented within school facilities. Both video monitoring and GPS tracking technologies are becoming prevalent onboard school buses. However, many onboard systems are proprietary and have limited interconnectivity with other onboard systems. To provide a reliable student transportation service, it is no longer enough to deploy stand-alone GPS and video-monitoring systems. Which system you deploy is important – you want to make sure the deployed solutions can communicate with each other, and with wayside stakeholders such as monitoring staff, concerned parents, or local school boards. Connecting these separate systems and having a single interface for all operations makes it simple to work with colleagues, share data, and monitor vehicles in real-time.



## Key benefits of a unified platform for K-12 student transit

### 1 Precise GPS tracking

Follow the movements of your fleet from a centralized monitoring system, from the moment buses leave the depot, to the moment they return. Locate vehicles in real-time or through historical records to understand exactly where a bus was, at what time. Advanced mapping and geofencing even allow you to be notified if a bus deviates from a pre-planned route.

### 2 Advanced vehicle telematics

Understand the behavior of your vehicles in detail thanks to the ingestion of onboard sensors into the Genetec unified platform. Record bus acceleration, driving patterns, and even bring in third-party sensors such as vehicle vacancy buttons, people counting sensors, or panic buttons.

### 3 Flexible onboard video

Deploy an onboard video solution built on an open platform that helps you protect students, drivers, and staff with your preferred hardware. Prioritized wireless offloads through Wi-Fi or cellular networks ensure you get the video you need without the logistical challenges of tracking and retrieving a physical recording onboard a bus of your fleet.

### 4 Synchronized data

Centralize and synchronize all onboard data on one unified timeline that connects GPS location to vehicle telematics and onboard video recordings for easy and streamlined review. Then, take it one step further by synchronizing all onboard data with your wayside security systems to provide unified door-to-door safety to students.

### 5 Modernized collaboration

Move beyond unsecured physical media to share video recordings or other sensitive data. Selectively share data with collaborators such as law enforcement, school boards, and parents through a secure online platform that also allows them to submit their own data so everyone who needs it can get the full picture of events.

### 6 Proactive response

Open architecture systems support useful analytics and third-party sensors that enable real-time alerting of critical events. From stop-arm violations to vape or anti-bullying sensors, our unified platform enhances the monitoring experience by providing critical information proactively to the right people at the right time.



## Our solution for K-12 student transit

The Genetec Fleet Monitoring solution addresses a strong need for optimized processes that create a smoother monitoring experience. Disconnected systems cause inefficiencies that make it more difficult to properly secure your vehicles and are more costly in the long run. Running an efficient operation means you have a unified, real-time view of your activities, to constantly identify operational gaps, respond swiftly to emerging incidents, and facilitate growth.

We offer a portfolio of transit-ready solutions designed to give you a unified vision of your operations. A unified vision lowers your security risks, improves internal collaboration, automates routine responses, and provides you with a clear path for growth.

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### Security Center

Is the unified security platform from Genetec that blends IP security systems within a single intuitive interface to simplify transit operations. From onboard video to vehicle data synchronization Security Center empowers your staff with unified command and control.

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### Fleet Monitoring

Extends the unified platform to your fleet of vehicles. Monitor vehicle movement, status, sensor data, and video footage from one open platform that helps you protect students, drivers, and staff with your preferred hardware.

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### Omnicast™

Provides transit services, schools, faculty, and parents the confidence of knowing their student's campus is securely monitored. Through deep, open support for a wide range of industry-leading cameras, encoders, and CCTV equipment, Omnicast scales and adapts to the changing demands of your educational institution.

**Genetec Inc.**  
[genetec.com/locations](http://genetec.com/locations)  
[info@genetec.com](mailto:info@genetec.com)  
[@genetec](https://www.genetec.com)

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### Streamvault™

Simplifies the deployment of server hardware for your security operations in a clear and cost-efficient manner. With embedded tools to simplify deployment and maintenance, Streamvault facilitates the process of integrating a unified security platform onto your vehicles. It comes cyber-hardened so you can fully protect your people, customers, and assets.

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### Clearance™

Enables collaboration between agencies and with the public by providing an online records management interface that streamlines the collection of evidence around a particular event. The secure online platform extends unification beyond your local system to bring in data from third-party cameras and even mobile devices.

[ConfluenceSecurity.ai](https://confluencesecurity.ai)  
[info@con-sec.com](mailto:info@con-sec.com)  
 303-596-7819

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