

School bus tracking and parent notifications

⚠ Challenge

A large-scale passenger transport automation program is underway in the Belgorod region. As part of the program, local authorities decided to digitalize school bus routes. They needed a solution that would track buses in real time and keep parents informed about their location and possible delays.

💡 Solution

The integrator, LogExpert, has developed a complete solution for school bus operators, city officials, and parents. It includes a mobile application and an administrative panel connected to the Wialon GPS/GLONASS monitoring platform.

To operate this solution, the [Scout MT 700](#) devices already installed on the buses are used.

- The bus location data from Scout devices go to the SCOUT platform; from there, using retranslators, they go to Wialon Local and NimBus.
- The solution is based on [NimBus, the application for monitoring public transport](#). **With the help of NimBus, school buses are assigned to the routes, and changes to the existing timetable are made.**
- LogExpert developers have created a mobile application for Android and iOS operating systems, which takes the necessary data from the NimBus Locator. The school principal provides access to the application upon written request from the parents. To do this, LogExpert has developed an authorization system through identifiers linked to the IMEI number, which is unique for each device – that is, only the parent from a specific device will have access to the application and tracking a particular bus. The application **informs parents about the trip's status** (cancellation, delay, out of order, etc.), provides the contacts of the responsible people on the bus, and shows text messages.
- The integrator has developed an administrative panel. In it, it is possible **to manage all business processes, change the status of a trip, set up the distribution of notifications**. Access to the administrative panel is available only for the state operator MKU Resource Support Center for Municipal Educational Institutions.

🏆 Results

The project has been completed and is already being used by residents of the Belgorod region.

✅ 80 school buses

That's how many vehicles were connected to the solution.

✅ Transparency of work

The service of bringing children to school and home has become safer and more straightforward for parents.

✅ Informing parents

If the bus is out of order, parents will immediately know that it is necessary to organize the delivery of the child from school or home on their own. If the bus is delayed, parents don't need to worry as they can keep track of the bus in real-time.

Company profile

🏆 **IoT project of the year nomination:** Public transport

Industry: Passenger transportation

Solutions

 Wialon

 Public transportation management

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