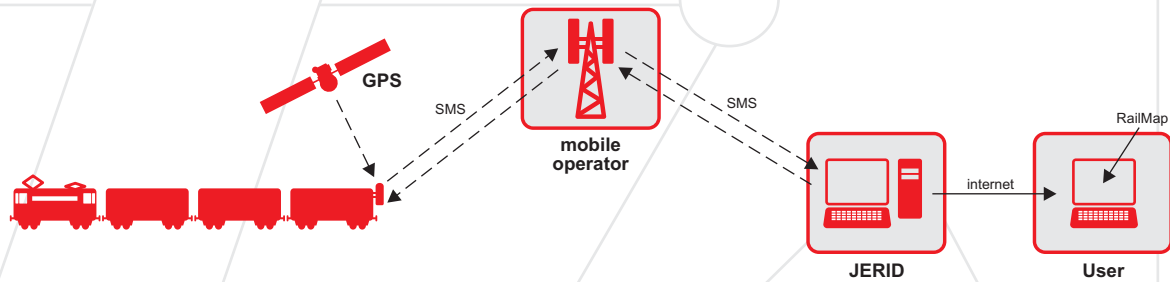


# Railway Wagon Monitoring Complex Solution



Monitoring of wagons on the railway is possible by fitting of a special communication equipment on the vehicles:



**Unit  
for outdoor use**



**Unit  
for indoor use**



**Unit  
placed underneath the wagon**

The JERID Company offers a complex system for objects' monitoring on the railway net consisting of the following parts:

## 1. Communication Unit GC 071

Communication unit exists in three designs like indoor, outdoor and in the special safety box placed underneath the wagon. The unit uses GPS module to detect exact position and via GSM modul sends this information in predefined intervals to service provider's server.

### Basic parameters of outside solution:

- Installation on all types of rail wagons
- Robust construction, stainless steel
- Special Lock for safe lockout
- High reliability
- Easy installation
- Very low power consumption from batteries
- Intrernal vibrational sensor responsive for motion
- Different status when moving or parked
- Proportions: Height: 325 mm, Width: 130 mm
- Working temperatures: -30 °C; +85 °C
- SIM card with advantageous tariff for international roaming
- Possibility to configure unit via SMS



### Basic parameters of inside solution:

- Convenient for closed wagons
- GPS/GSM antenna placed on the roof
- Lower risk of theft
- High reliability
- Plastic case covered by iron box with lock
- The rest of parameters is the same with outside unit



### Basic parameters of unit underneath the wagon:

- Higher sensitivity for GPS signal
- The antenna on the unit can be placed symmetrically below edge of wagon
- The unit is locked in the safety box with the special lock resistant to theft
- The rest of parameters is the same with inside and outside unit



## 2. Possibility of data presentation

### Monitoring of wagons on the Internet application <https://www.railmap.net>

Customer receives user login, password a generated certificate for access into this Internet application. After successful login following functions are available:

#### A. List of Wagons

- Possibility to add, delete and edit information on the wagons including their description

#### B. Current Position of Monitored Wagons

- User's list of wagons with the last position (date, time and the relevant nearest railway station)
- Detailed information on each displayed position
- Wagons' selection and their presentation on the map

#### C. Wagons' Movements History

- Criteria selection for filtering of objects' movement history
- Listing of required positions (wagon number, date, time, the nearest station and detailed info)
- Display of selected positions on the map

### Monitoring of wagons in desktop application RailMap+

This application is desktop high quality railway map that offers in addition to possibility of monitoring also advanced map functions. This map is convenient not only for monitoring of objects on the railway net but also for monitoring of objects on the highways all over the Europe. Compare with Internet version this map offers more comfortable and sophisticated functions and control.

