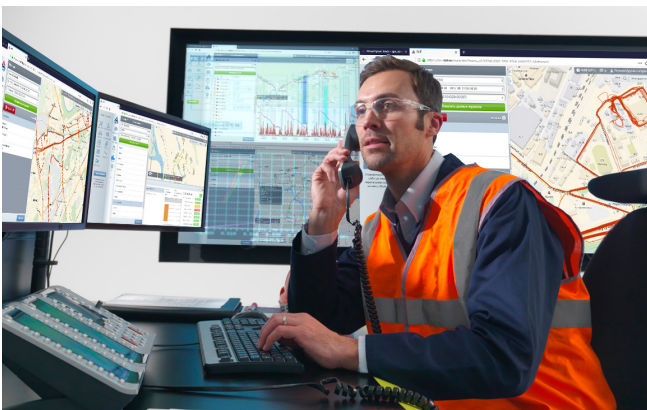# MOVEMENT OF VEHICLES

MONITORING + DISPATCH

This presentation formalizes the requirements regarding development of a service software product «Monitoring, control and dispatching of the organization of movement of vehicles by road» to ensure the rapid transfer of data on the movement of vehicles from area where the offence was committed to specially designated parking lot, generate statistical report and documents that are overview and analytic in nature, and to exchange information between Road Patrol Service, transportation entities and software users.

1 Traffic police officers identify vehicles that are parked in areas not intended for this purpose, or violated traffic rules. Then they document the event and report to the dispatch center of the Road Patrol Service that towing service must visit the area where the offence was committed.

2 Duty officer of the Road Patrol Service generates and sends information through SKIF.ME Software Interface: that the tow truck must visit the area where the offence was committed, and the towing service operator receives the information.

3 After receiving the application/call the Service operator monitors in the SKIF.ME Software Interface the objects (connected to the GPS/GLONASS) waiting for the task to be assigned and, having determined assigns this visit.

4

In doing so, she/he maps a route/task (if it is send to navigator's screen remotely), or contacts with the driver via direct two-way GSM communication (using the built-in PTT button).

5

The Service operator sets also the geographic zone of the address to which the tow truck was sent in the SKIF.ME Software and sets the sending of notifications about the time of entry and exit from this zone.
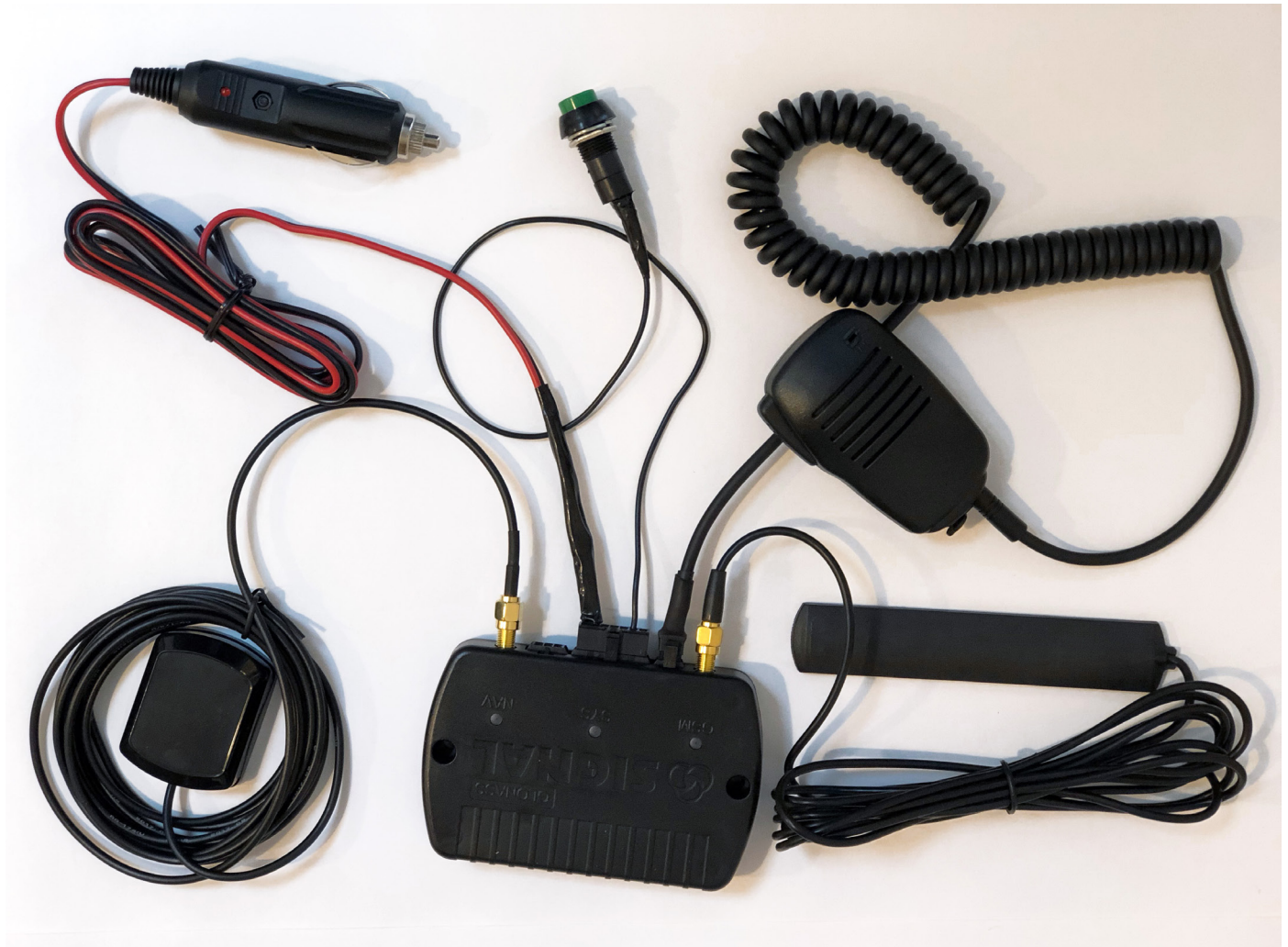

6

After receiving the notification of the tow truck exit from the geographic zone, or confirmation from the driver via direct two-way GSM communication, the operator makes a note in the software (where Duty officer of the Road Patrol Service can also see the note) that the vehicle is being moved from an area to specially designated parking lot.

7

A similar process can be seen when the tow track enters in the drawn up geographic zone of the specially designated parking lot where the vehicle is unloaded and a note is made of the tow truck's destination and of the location of the moved car, which means an automatic informing the user.

Car GPS/GLONASS/GSM terminal provides the determination the vehicle location and telemetry indicators (speed, route, parking lots, fuel level, «ignition», emergency two-way communication) and the transmission of this information to the processing server using GPRS channel. All data not transferred to the server is stored in non-volatile flash memory, which allows to use the terminal as a «Black box», with their data transferred to the server when the communication channel is recovered. In order to protect the equipment from voltage spikes in the vehicle electrical system, an additional power security module is installed. Application of security seals on units (connections, plugs, connectors), as well as a protective cabinet with IP65 protection level with sealing protect against unauthorized tampering by unauthorized persons in the equipment operation.