

Centralised monitoring software



(v2.35 program modules MAPS and NAV)

User Manual

Purpose of the document

This document describes installation and configuration procedures, and operation features of *Monas MS* program modules MAPS ir NAV.

Contents

1. Purpose of <i>Monas MS</i> program modules MAPS and NAV	3
2. Software contents	3
3. Installation of program modules MAPS and NAV	3
3.1. Preparatory works before installing module MAPS	3
3.2. Preparatory works before installing module NAV	3
3.3. Equipment installation in RRG car	4
4. Work procedure of the operator using program modules MAPS and NAV	6
4.1. Object display on the electronic map	6
4.2. Display of crew deployment	6
4.3. Selecting and dispatching a crew	6
4.4. Communication with the crew	7
4.5. Crew location and movement control	7
4.6. Preparation of reaction reports	9

1. Purpose of *Monas MS* program modules MAPS and NAV

Monas MS is an application software package for displaying, processing and storing messages received in centralised security and monitoring stations.

Monas MS program module MAPS displays the location of protected objects on the map.

Monas MS program module NAV sends the relevant information to rapid response group (RRG) and supports the connection between the monitoring station and the crew. Crew deployment and movement are displayed on the electronic map.

2. Software composition

Centralised monitoring software *Monas MS* is comprised of:

- Database operation software *MS SQL*;
- *Monas MS server*;
- *Monas MS client*;
- *Program Station*;

Received messages and entered data about protected objects are stored in the database *MS SQL*.

Monas MS server receives data from external reception devices and controls data exchange between the database and *Monas MS client*.

Monas MS client displays the received message alongside the protected object information from the database. Number of *Monas MS client* in operation is limited by the number of work places set up in the network.

Station ensures communication between the monitoring software and equipment in RRG car.

Detailed software operation features are presented in the security access key.

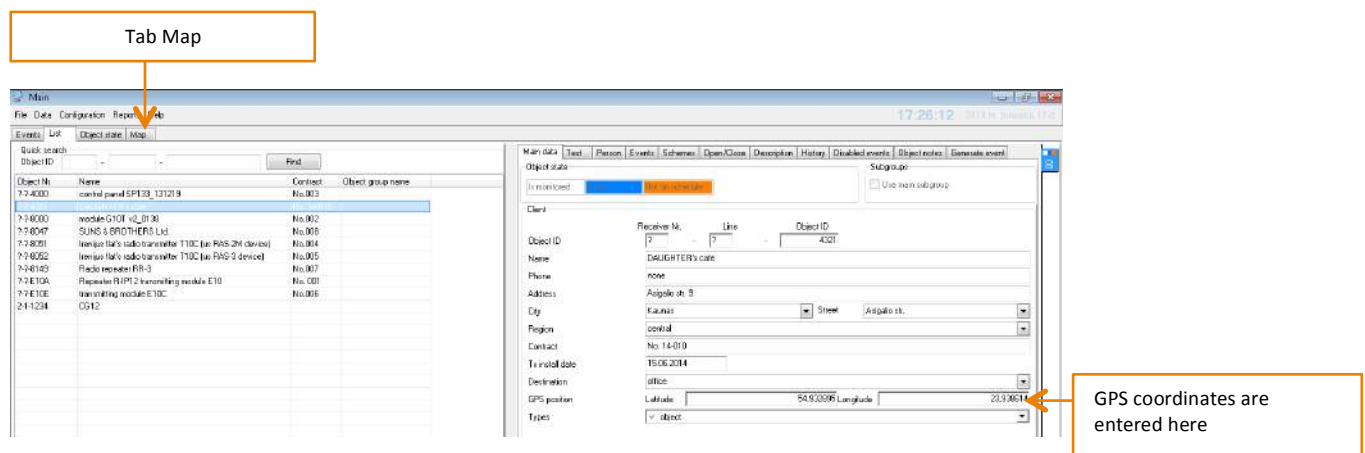
3. Installation of program modules MAPS and NAV

It is necessary to ensure that the key is inserted and MAPS and NAV features are enabled before installing program modules MAPS and NAV.

3.1. Preparatory works before installing module MAPS

Internet access and possibility to get Google MAPS electronic map legally must be ensured in the computer with installed *Monas MS client*. A possibility for the software to exchange data via the specified port must be provided by ensuring connection, i.e. forwarding the port to work places.

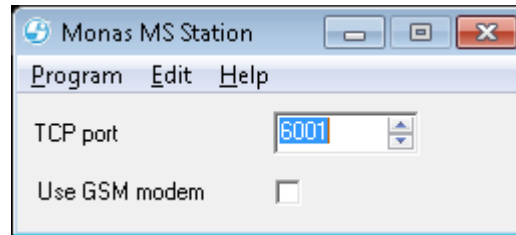
GPS coordinates need to be known in order to display object locations. They are entered in *Monas MS client* main window GPS coordinates field.



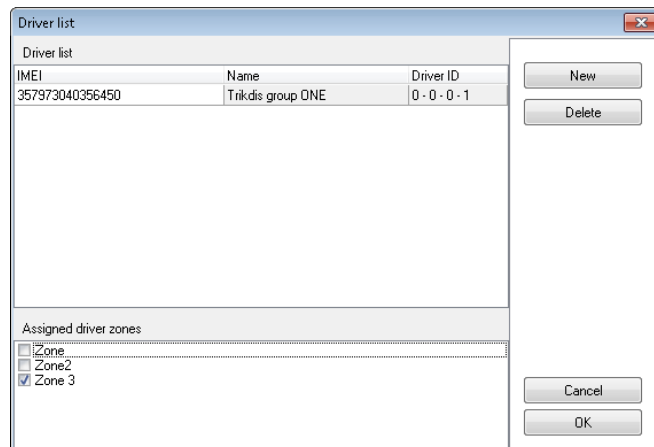
3.2. Preparatory works before installing modules NAV

Start *Station* and specify the port for communication with rapid response group equipment. Tick the respective box if connection will be supported using an additional GSM modem. Network and computer with

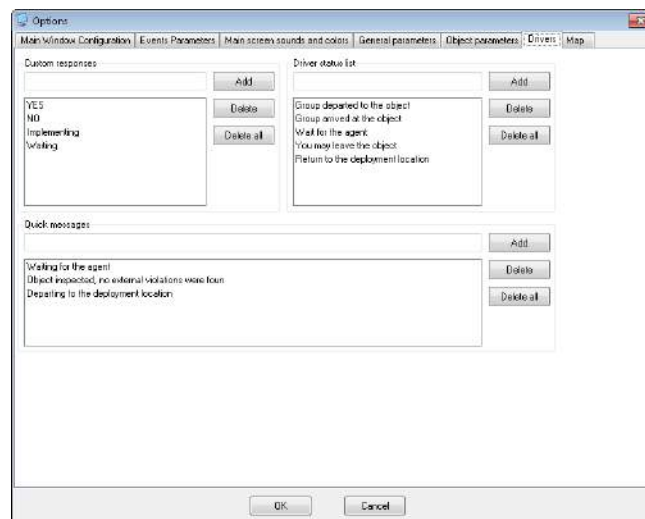
installed *Monas MS* must be configured to allow the specified port to exchange data with external devices (necessary port forwarded).



Prepare the list of rapid response groups in *Monas MS client*. Use command *Command* → *Driver list* to open a window to describe mobile crews. Crew IMEI will be displayed when connection with the car equipment will be ensured.

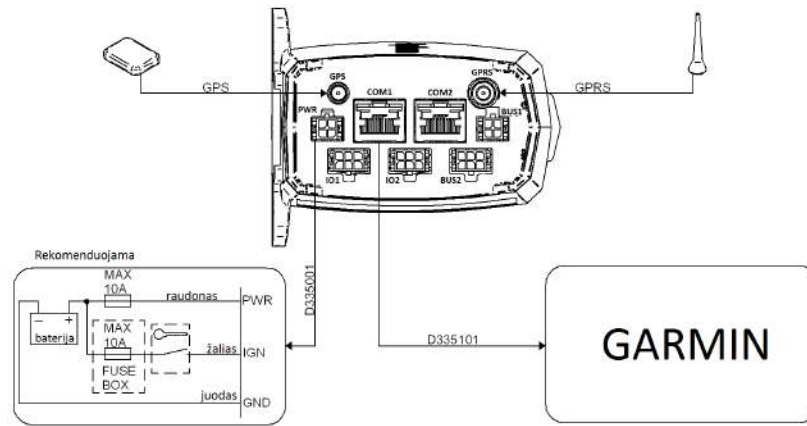


Use command *Configuration* → *Parameters* → *Drivers* to enter examples of quick messages, possible responses and prepare crew status lists.



3.3. Equipment installation in RRG car

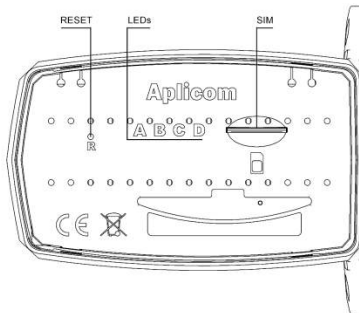
GPS navigation equipment Garmin (navigator must support FMI45 connection protocol) is used in RRG car to display the way and support communication with the monitoring station. It must have protected area maps installed. Monitoring station data is sent to the navigator using module Aplicom A1 Trax.



Aplicom A1 Trax module must be programmed before being set up: set GSM network log in data (access point name (APN), log in name and password), *Monas MS server* IP and port number (ports set in *Station* and the connection module must conform), and main operation parameters. Operation parameters are set during the sale and are not changed during the operation. Operation parameters are set by UAB Trikdis.

Following guidelines must be complied with during the set up:

- GPS and GPRS antennae must be affixed as as far as possible from the radio antenna or other electronic devices (recommended not closer than 1m). Antennae must not be blocked by the car roof, it is recommended to affix them on the front panel. Do not use antennae with grounding.
- Insert SIM card to Aplicom A1 Trax module as shown in the picture below or on A1 Trax case. PIN demand option for SIM card must be disabled. GPRS connection is used for data transmission.

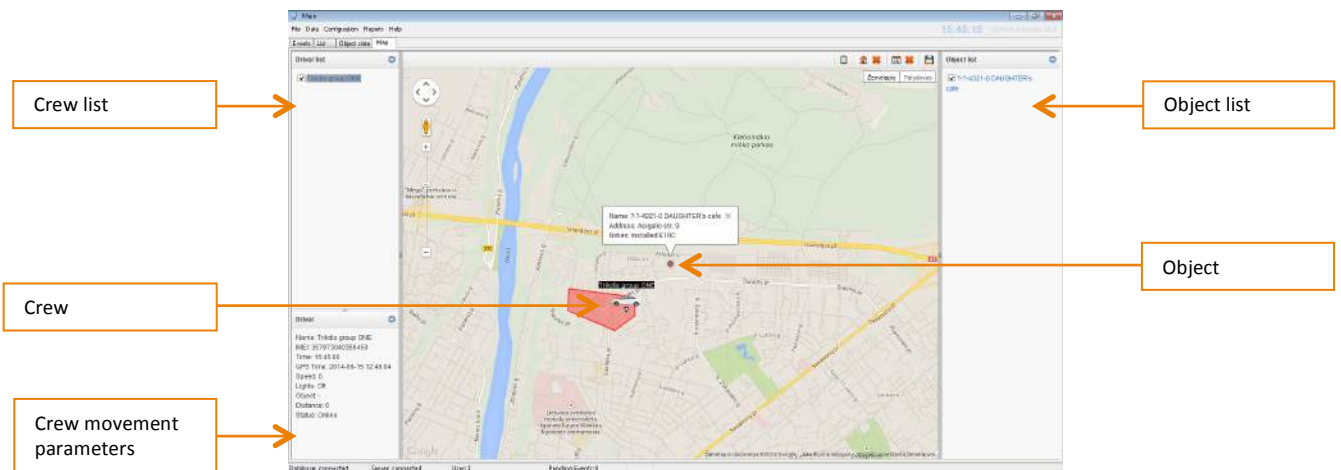


- Attach elastic protection on the front A1 Trax panel.
- Attach Aplicom A1 Trax module using self-tappers, duplex adhesive tape or plastic clamps from the set up kit.
- Attach Garmin navigation equipment in an easily accessible and conspicuous place.

4. Work procedure of the operator using program modules MAPS and NAV

4.1. Object display on the electronic map

Select the desired object in the processed events window (or after receiving a message from an object) and click **Map**. Same can be achieved by choosing tab **Map**.



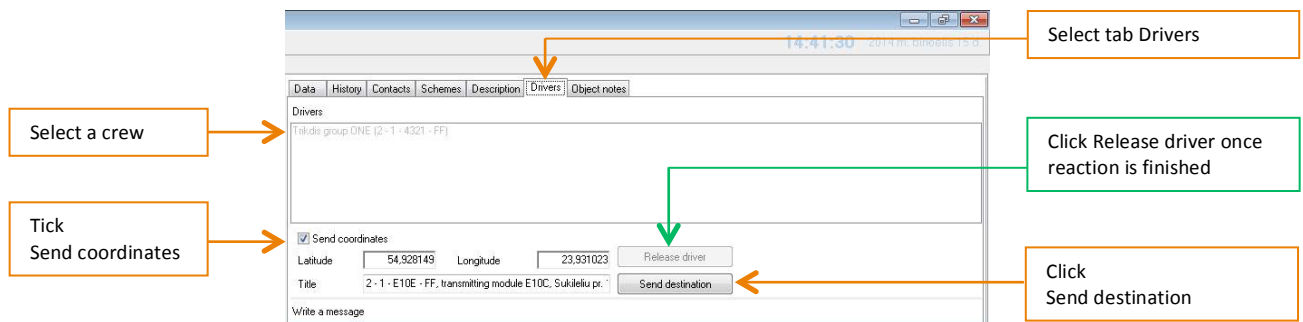
Object mark colour changes once the alarm system is triggered. Select other objects from the object list (right side of the window) and their location will be displayed on the map.

4.2. Display of crew deployment

Select the desired RRG in the crew list (left side of the window) to display their location on the map. Movement parameters are displayed at the bottom.

4.3. Selecting and dispatching a crew

Station operator decides to send a crew to the object when the alarm system is activated in the protected object and a message about that is received. Choose the crew in the message window tab **Drivers** and send GPS coordinates to them.



Movement route will be displayed on the screen of the crew navigation equipment and the crew will head to the referred object. Location and movement parameters of the crew will be displayed on the electronic map. Communication with the crew will be supported using text messages.

14:39:15 2014 m. birželio 15 d.

Data | History | Contacts | Schemes | Description | Drivers | Object notes

Drivers

Trakdis group ONE (2-1-4321-FF)

☒ Send coordinates

Latitude: 54.932895 Longitude: 23.938614 Release driver

Title: 2-1-4321-FF, DAUGHTER's cafe, Asigallo str. 9, Eve Send destination

Write a message

slowly go to the object

Answers

☒ YES ☐ NO ☐ Implementing ☐ Waiting

Send

History

Time	Action
14:37:40	Destination "2-1-4321-FF, DAUGHTER's cafe, Asigallo str. 9, Event restore, FF" sent.
14:37:42	Driver has received destination "2-1-4321-FF, DAUGHTER's cafe, Asigallo str. 9, Event restore, FF", but has not read yet.
14:38:51	Sent message "slowly go to the object"
14:38:52	Driver has received the message "slowly go to the object" but has not read yet.

Correspondence history seen on the operator's screen

4.4. Communication with the crew

Station operator and the crew may exchange information using the text messages during the reaction.

Crew writes a message using the navigation and sends it to the station via the connection module. Message writing procedure and actions depend on the navigation equipment used and will be indicated in their user manuals.

Station operator may write a message in the field *Write a message*. Anticipate a possible response (to make reaction of the crew faster) and send it by clicking **Send**.

14:39:15 2014 m. birželio 15 d.

Data | History | Contacts | Schemes | Description | Drivers | Object notes

Drivers

Trakdis group ONE (2-1-4321-FF)

☒ Send coordinates

Latitude: 54.932895 Longitude: 23.938614 Release driver

Title: 2-1-4321-FF, DAUGHTER's cafe, Asigallo str. 9, Eve Send destination

Write a message

slowly go to the object

Answers

☒ YES ☐ NO ☐ Implementing ☐ Waiting

Send

History

Time	Action
14:37:40	Destination "2-1-4321-FF, DAUGHTER's cafe, Asigallo str. 9, Event restore, FF" sent.
14:37:42	Driver has received destination "2-1-4321-FF, DAUGHTER's cafe, Asigallo str. 9, Event restore, FF", but has not read yet.
14:38:51	Sent message "slowly go to the object"
14:38:52	Driver has received the message "slowly go to the object" but has not read yet.

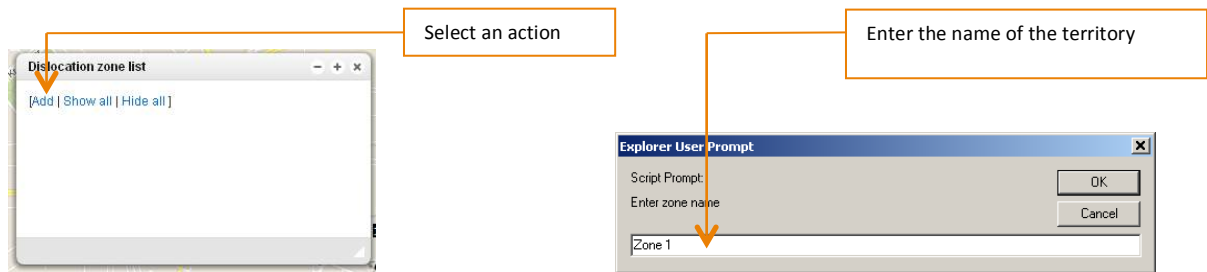
Correspondence history seen on the operator's screen

4.5. Crew location and movement control

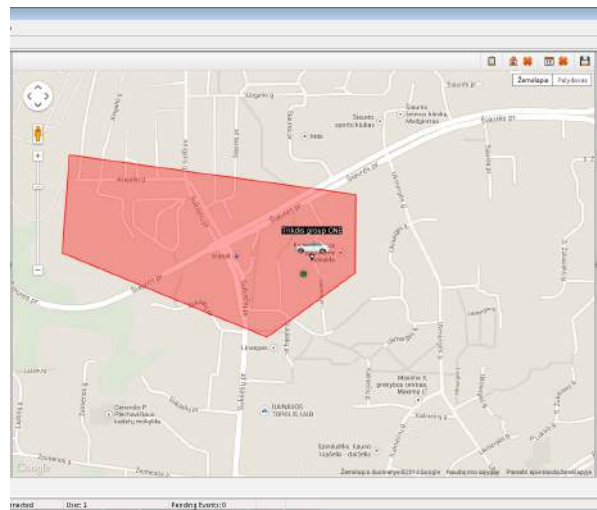
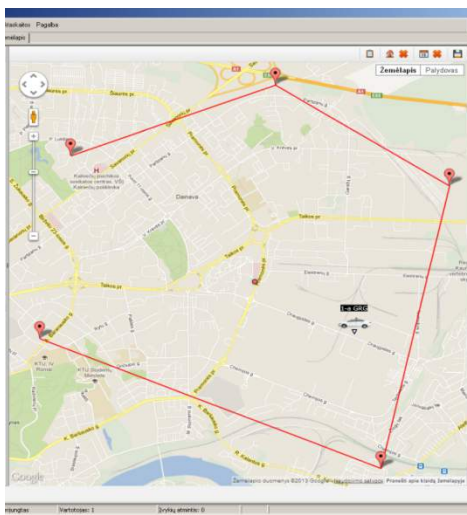
Territories (crew deployment areas and serviced territory limits) in which rapid response groups are supposed be are marked in order to control the movement of mobile crews.



Click **Add** and specify the name of the deployment territory in a new window.

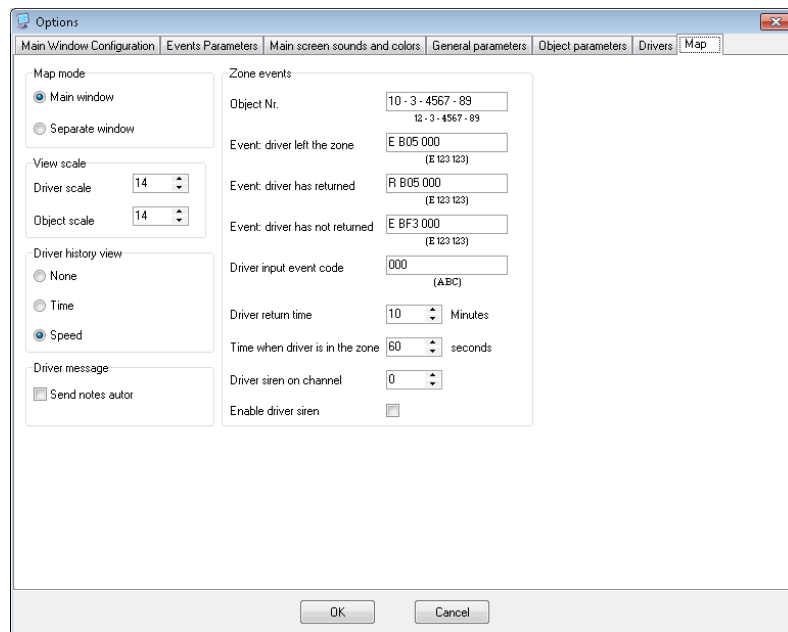


Select the desired territory to display it on the screen. A message to the station operator will be generated upon violating the established deployment area limits.



Messages about deployment area violations are described using a command *Configuration* → *Parameters* → *Map*.

Crew history settings and control parameters are also set in this window.



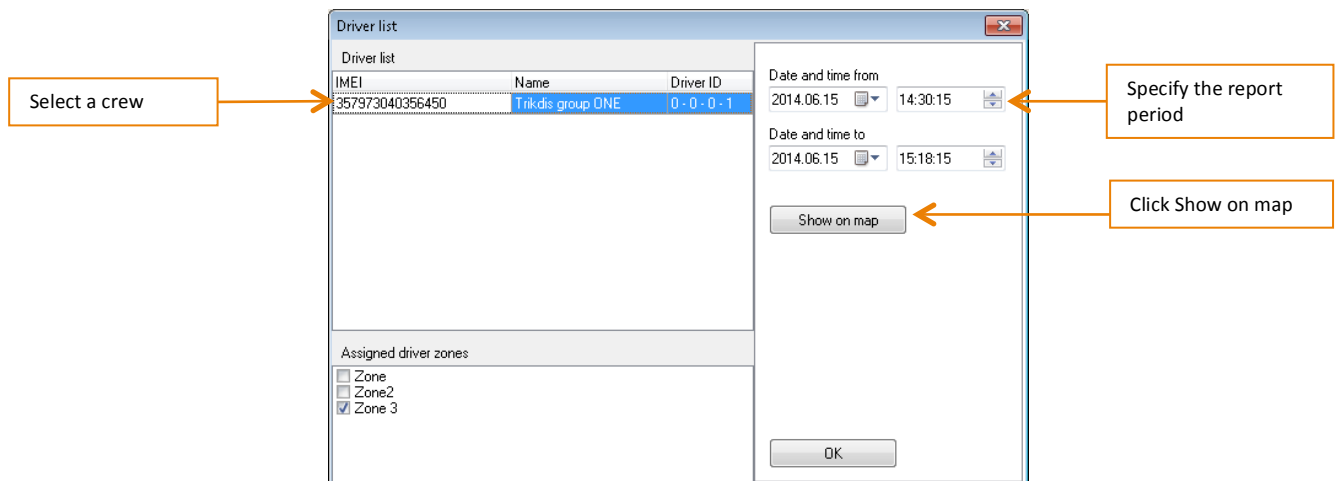
Describe the rapid response group in object the list as a new object using the number indicated in a window opened using a command *Data* → *Driver list*. Enter the event codes. Messages will be generated if a crew does not come back in time or at all to the place of dispatch.

4.6. Preparation of reaction reports

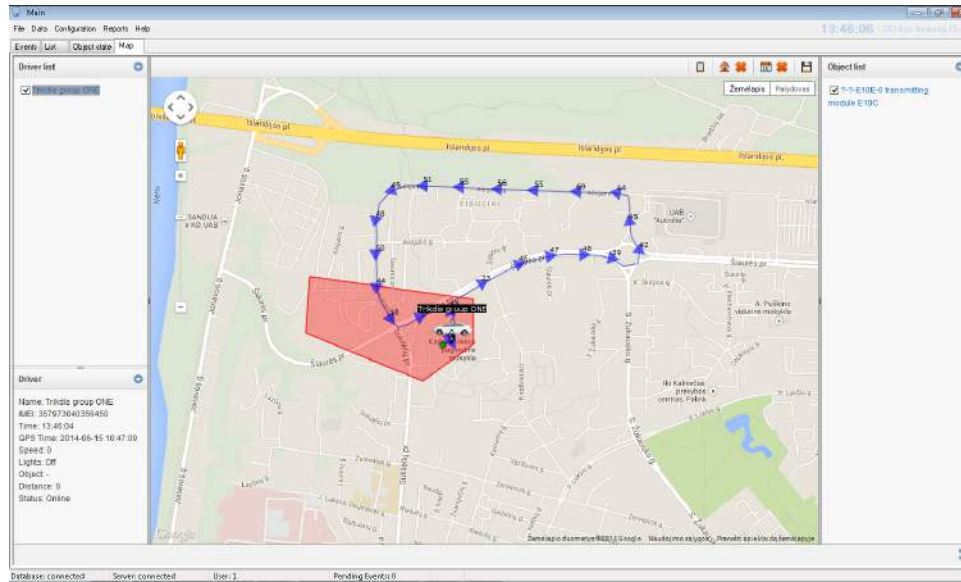
Either a crew movement report on the map or a full reaction report may be prepared.



Specify the desired period and a crew whose movement you wish to control in the new window. Click **Show on map**.



The movement route with the data that was requested will appear on the map after several seconds.



Use command *Reports* → *Events* to prepare a detailed crew reaction report. Select tab *Drivers* and specify the time period, object, crew, report parameters and report type (print or save to file).

The screenshot shows the 'Events' report configuration window in the TRIKDIS software. The window has two tabs: 'Notes' and 'Drivers'. The 'Drivers' tab is selected. In the 'Event Code' section, there are five radio buttons: 'All events' (selected), 'Selected events', 'By reaction', 'Unknown', and 'Event descriptions'. In the 'Other' section, there are two dropdown menus: 'Contract' (set to 'All') and 'Object group' (set to 'All'). Below these is a 'Types' dropdown menu. In the 'Driver list' section, there is a dropdown menu with 'Tridis group ONE' selected. In the 'Report orientation' section, there are two radio buttons: 'Portrait' and 'Landscape' (selected).

Example of a prepared report is displayed below.

Report

Time 2014.06.15 00:00:00 - 2014.06.15 23:59:59
Object ID ?-?-4321;
Object DAUGHTER's cafe;
Subgroups All
Show Repeated Yes
Included events All

Nr	Date	Time	Object ID	Object	Report Code	Event name	RI level	RR	Repeater
1.	2014.06.15	14:21:19	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
2.	2014.06.15	14:22:19	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
3.	2014.06.15	14:23:20	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
4.	2014.06.15	14:24:21	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
5.	2014.06.15	14:25:22	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
6.	2014.06.15	14:26:23	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
7.	2014.06.15	14:27:24	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
8.	2014.06.15	14:28:24	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
9.	2014.06.15	14:29:25	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
10.	2014.06.15	14:30:26	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
11.	2014.06.15	14:31:27	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
12.	2014.06.15	14:32:28	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
13.	2014.06.15	14:33:29	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
14.	2014.06.15	14:34:29	0-0-4321-0	DAUGHTER's cafe	E FFF ---	No test			0
15.	2014.06.15	14:36:32	2-1-4321-FF	DAUGHTER's cafe	E 132 001	Open	0		0
16.	2014.06.15	14:36:32	2-1-4321-FF	DAUGHTER's cafe	E 132 002	Burglary to flat	0		0
17.	2014.06.15	14:36:32	2-1-4321-FF	DAUGHTER's cafe	E 132 003	Fire	0		0
18.	2014.06.15	14:36:32	2-1-4321-FF	DAUGHTER's cafe	E 132 004	Low Power	0		0
19.	2014.06.15	14:36:32	2-1-4321-FF	DAUGHTER's cafe	E 308 000	System shutdown 000 zone 0	0		0
20.	2014.06.15	14:36:32	2-1-4321-FF	DAUGHTER's cafe	E 602 000	Periodic test report 000 0	0		0
21.	2014.06.15	14:37:15	2-1-4321-FF	DAUGHTER's cafe	R 132 003	Fire restore	0		0
2014.06.15 14:37:40 1 Driver "Triklis group ONE" acquired 2014.06.15 14:37:45 1 Destination "2 - 1 - 4321 - FF, DAUGHTER's cafe, Asigalio str. 9, Event restore, FF" sent. 2014.06.15 14:37:45 Driver has received destination "2 - 1 - 4321 - FF, DAUGHTER's cafe, Asigalio str. 9, Event restore, FF", but has not read yet. 2014.06.15 14:38:51 1 Sent message "slowly go to the object" 2014.06.15 14:38:52 Driver has received the message "slowly go to the object" but has not read yet.									
22.	2014.06.15	14:42:47	2-1-4321-99	DAUGHTER's cafe	E 350 000	Communication trouble 00 F			0
23.	2014.06.15	14:43:56	2-1-4321-99	DAUGHTER's cafe	R 350 000	Restore Communication tr F			0
24.	2014.06.15	14:43:56	2-1-4321-FF	DAUGHTER's cafe	E 132 003	Fire	0		0
2014.06.15									

1