



## Monitoring

### How to Track Units on Map

To locate a unit on the map, click on its name in the work list. The map will be centered by this unit.

Only units checked in the first column of the work list are shown on the map. To display all units from the work list, mark a check box in the left top corner of the list. Remove this checkbox to remove unit icons from the map.

Units are seen on the map if they get into view according to the current map position. You can move and zoom the map according to your needs.




However, if the option Show unit icons at map borders is selected in User Settings, in case a unit gets out of view, its icon is displayed by map border. Click on the icon to move to the unit on the map.

It is possible to watch a unit constantly. For this, enable the option Watch unit on map against a necessary unit in the corresponding column ( ) of the Monitoring panel. Units marked in this column are always seen on the map. If such a unit gets out of view, the map automatically centers at this unit each time when a new message comes.

### Tracking on Mini map

You can use minimap for tracking. This is an additional small window which opens in the right bottom corner of the map. Only *one* unit can be displayed on this map. Position and scale of the mini map can be different from the main map. So, you can simultaneously track a unit on the mini map and manipulate the main map in different ways – track other units, create Geofences, generate reports, etc. At that, the selected unit is always in sight on the minimap, and its position is refreshed automatically with each new message.

To open the minimap, click the special button at the bottom of the window. The minimap has three modes and three functions correspondingly:

1.  – navigation through the main map,
2.  – tracking a unit on minimap,
3.  – tracking a unit in 3D mode on Google Street View.

The first (navigational) function was described below. To track a unit on the minimap, click on it on the main map. The minimap itself can be open before or after clicking on a unit.



In the tracking mode, the minimap cannot be moved – it is centered automatically by unit last location. However, you can adjust the zoom level using **+/-** in the top left hand corner of the minimap. Above there is a button to switch between navigation and tracking modes.

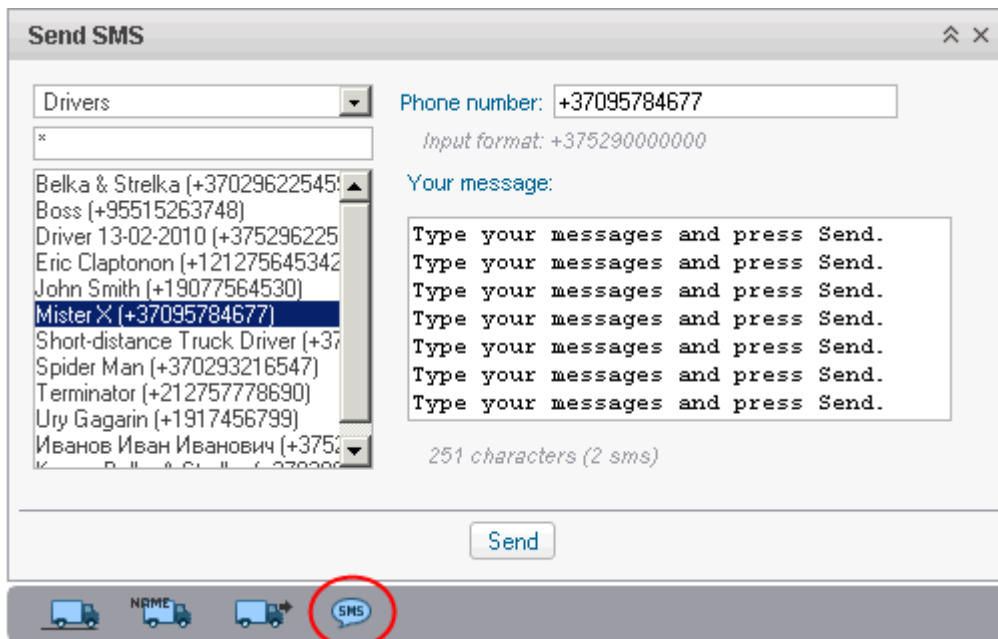
The tracked unit must be checked in the first column of the work list in the Monitoring panel. Otherwise, if you disable this flag, the unit will disappear both from the main map and from the minimap, and the minimap will automatically switch to the navigational mode.

On the minimap a unit is represented by its icon and its name (or driver's name). Motion state signs, trace from last messages, and sensor-based colors are not available. If you hover the mouse cursor over the unit, you can see unit info tip with the newest information about the unit. If you click on a unit in the minimap, the main map is centered to this unit too.

## How to send SMS messages

SMS messages can be sent to drivers, units, and to any phone number. SMS dialog is accessible in [Monitoring](#), [Units](#), and [Drivers](#) panels as well as in the [ground panel](#) of the FleeTrak Monitor.

The buttons will not be displayed if the current user does not have enough rights to send SMS messages.



In the dropdown list of *Drivers/Units* select addressee. Below there will be displayed the list of objects of the selected type which have phone number in their properties. Phone number is displayed in brackets after object's name. To quickly find a needed object on the list, use the [dynamic filter](#).

On the right of the dialog the phone number of the selected element is displayed. It is taken from the object's properties. However, you can input any other number in [international format](#).

As you type your message, below you can see the number of symbols used and the number of SMS messages which are needed to send your message. Remember that letters of the Latin alphabet are optimal.

After you have typed the text, Click the *Send* button. After that, in the dialog as well as in the [log](#) there will be a record about how successful the operation has been.

A driver can send SMS to a dispatcher from his phone. This phone number must be indicated in [driver's properties](#). Drivers' messages appear in the [log](#) and popup in a special



window (the same as for drivers' messages sent from a device in the form of a command). Besides, if there are unread messages, a blue envelope will blink in the bottom panel. To reply to an SMS, click on the *SMS* button against the message.

**Messages** ^ ×

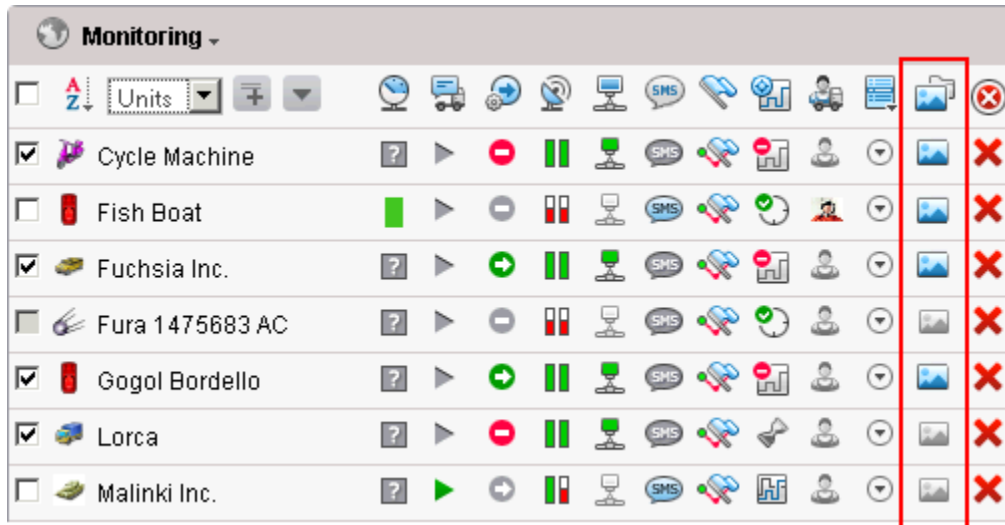
<b>2011-11-04 11:46:18 James Bond</b> OK	
<b>2011-11-04 11:43:43 James Bond</b> SOS. Broke down. Between Kings Parkway and 47th... SOS. Broke down. Between Kings Parkway and 47th East street.	
<b>2011-11-04 11:43:14 James Bond</b> Route finished Route finished	
<b>2011-11-04 11:41:07 James Bond</b> Accepted Accepted	
<b>2011-11-04 11:41:00 James Bond</b> Got jammed Got jammed	

Close window after deleting all messages  
Delete all | Delete read

If you have the *Advanced Reports* module in your package, SMS chat of a dispatcher with a driver can be shown in a special table called **SMS**.

## How to Send Pictures with Message

If the equipment (Unit) supports such a possibility, units can send pictures together with messages. Pictures can be viewed in the Messages Mode as well as in the Monitoring panel.



After Clicking the picture icon above, picture viewer will be displayed. You can view all the pictures received during the current session as well as the latest picture received before you logged in.

The above mentioned way is to view pictures of a certain unit. To view last pictures of all units, click the **pictures** button at the bottom of the screen.



To move between images, use arrows. Between them you can see the number of the pictures viewed and the number of available images. Pictures are sorted according to the time they come to the server.

Above each picture, there is its date and time. Under each picture you can see a unit name and address information from the message.

Some pictures can be enlarged with a special button in the right top corner. To close a picture viewer, use the X button in the right bottom corner.

All images received from units can be observed in reports.

## Icon Explanation

The list of all icons which can be found in the Monitoring panel is presented below. Depending on your individual needs you can hide or show certain columns in the dialog User Settings => Monitoring Panel.





























Monitoring													
<input type="checkbox"/>	Units												
<input type="checkbox"/>	SMS Sim011												
<input type="checkbox"/>	SMS Sim004												
<input type="checkbox"/>	Sensor Rico												
<input type="checkbox"/>	Fish Boat												
<input checked="" type="checkbox"/>	Cycle Machine												
<input checked="" type="checkbox"/>	Fuchsia Inc.												
<input type="checkbox"/>	Fura 1475683 AC												
<input checked="" type="checkbox"/>	Gogol Bordello												
<input checked="" type="checkbox"/>	Lorca												

All icons can be divided into two groups:






















- Operational:** icons-buttons, if clicked they allow to perform an action over a unit (such as event registration, command execution, messages query, track building, properties editing, removal from the work list, etc.). Further instructions can be found in appropriate dialogs and panels which are invoked by these buttons.
- Informational:** icons which give information about unit current conditions (moving or stationary, sensor value, connection state, data accuracy, driver, etc.). Further information in such cases can be found in tooltips. To read a tooltip, put a mouse pointer over a chosen icon.

Icons at the head of the table are also applicable. In many cases they allow to sort items on the list according to a condition: for instance, moving units at the top, stationary units at the bottom.

<input checked="" type="checkbox"/>	The first column in the table is filled by check boxes. Put flags near units you want to be displayed on the map. Put a flag at the top of the table to mark all units at once.
	The button to add units/groups to the list using a <u>filter</u> .
	The button to add all available units/groups to the <u>work list</u> .
	The button to sort units by name in direct order.
	The button to sort units by name in reverse order.
	Mark a unit to fulfill its active tracking. That means it will be always in sight when a new message comes from it. When you click the button in the head of the table, all

	<p>units selected to be shown on the map (ticked in the first column) will get into active tracking.</p>
	<p>Unit state:</p> <ul style="list-style-type: none"> <li> – unit is moving,</li> <li> – unit is moving, engine is on,</li> <li> – unit is stationary,</li> <li> – unit is stationary, engine is on;</li> <li>  – the last message from unit was received over an hour ago: unit was stationary;</li> <li> – the last message from unit was received over an hour ago: unit was moving.</li> </ul> <p>Unit state is detected according to its speed value in the last message and ignition sensor state (if there is such). Apart from that, if unit is stationary in the tooltip you can see for how long (the current session data is taken into account as well as the last message from unit before you have logged in).</p>
	<p>This column indicates data accuracy.</p> <p><b>First bar</b> shows satellites availability:</p> <ul style="list-style-type: none"> <li> green – satellites are available (see the precise number of satellites locked in the tooltip),</li> <li> red – satellites are not available.</li> </ul> <p><b>Second bar</b> shows the last data was get from unit:</p> <ul style="list-style-type: none"> <li> green – unit sent data less than 5 minutes ago,</li> <li> yellow – unit sent information within the last hour ,</li> <li> orange – unit sent data within the last day,</li> <li> red – there was no messages for a long period of time.</li> </ul> <p>To know the precise time of the latest information update, place a cursor over the icon and read a tooltip.</p>
	<p>Unit connection to server:</p> <ul style="list-style-type: none"> <li> – unit is connected,</li> <li> – unit is not connected.</li> </ul> <p>Unit is considered to be online if it has TCP or UDP commands available or it has sent messages within last 10 minutes.</p>
	<p>In this column sensor state can be shown</p> <ul style="list-style-type: none"> <li> – the value is unknown (or the option is not activated for this unit);</li> <li> (or a small square of any other color) – visualizes sensor's value. When putting a cursor over the square, in the popup window you can see the value or description.</li> </ul>
	<p>The button to <a href="#">send a command or a message</a> to unit:</p> <ul style="list-style-type: none"> <li> – there are available commands,</li> <li> – there are available commands, including GPRS commands,</li> <li> – there are available commands, including GPRS commands, however, the current user has not enough access to execute them,</li> <li> – there are no commands available.</li> </ul>
	<p>View messages received from unit  (see <a href="#">Messages</a>).</p>



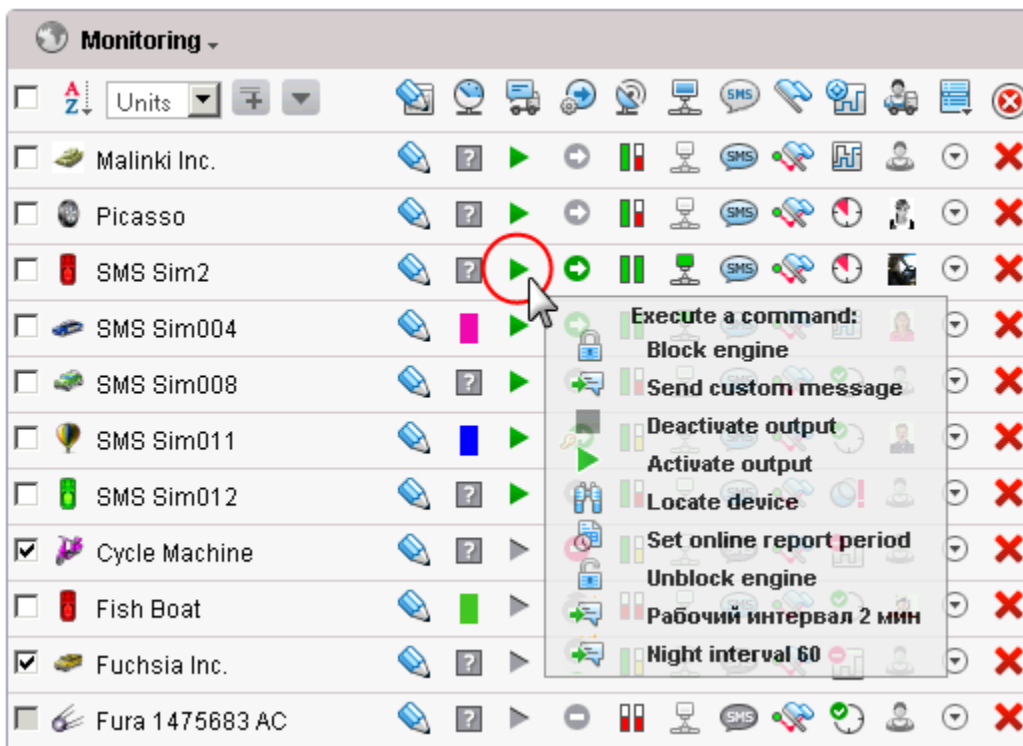
	<p>Register an event like fuel filling, maintenance work, etc.</p> <ul style="list-style-type: none"> <li> You can register an event.</li> <li> Not enough rights to register an event for this unit. \See <a href="#">Events Registrar</a> for details.</li> </ul>
	<p><a href="#">Send SMS</a> to unit or driver (the addressee is selected in the dropdown menu if both options are available). To explore the full functionality of this option, the current user must have rights to send SMS messages, access to unit at least at <i>execute commands</i> level, a driver must be bound to the unit, and both (units and driver) must have phone numbers in their properties.</p> <ul style="list-style-type: none"> <li> You can send an SMS to unit or driver.</li> <li> SMS sending is not possible.</li> </ul>
	<p><a href="#">Fast track</a> building. The button can have two states:</p> <ul style="list-style-type: none"> <li> – show track on the map,</li> <li> – remove track from the map.</li> </ul>
	<p>Display <a href="#">unit</a> or <a href="#">group</a> properties dialog]]. Depending on your access level, this button may have different looks:</p> <ul style="list-style-type: none"> <li> – you can edit unit/group properties (your access is <i>manage</i> or <i>edit</i>),</li> <li> – you can view almost all unit/group properties but not change them (your access is <i>view</i> or <i>execute commands</i>).</li> </ul>
	<p>View <a href="#">pictures</a> sent by unit:</p> <ul style="list-style-type: none"> <li> – the button to load pictures,</li> <li> – no pictures available.</li> </ul>
	<p>In this column <a href="#">driver's</a> small photo is displayed. Put a cursor over it to see enlarged photo, driver's name and phone number.</p> <ul style="list-style-type: none"> <li> – No driver assigned.</li> </ul>
	<p>An additional menu  that can contain any of above mentioned buttons and signs. Its contents are adjusted in <a href="#">User Settings</a>.</p>
	<p>Remove all units/groups from the work list (the button is at the top of the table).</p>
	<p>Remove a particular unit from the work list (the button is situated against the selected unit)..</p>

## How to Execute Commands

Command is a request which is sent to a unit. In response, the unit can send its coordinates, take a picture, activate an output, block engine, etc. Available commands depend on type of device used and its configuration.

In the Monitoring panel there can be a button to send commands. The button can obtain different looks: (refer to the icon description for command icons)

Put the cursor over the active button against the needed unit to see the list of available commands.



1. Push the command button or .
2. Select a command from the list of commands available at the moment.
3. Set additional parameters if needed, for example, input/output index, report interval, etc. (depending on command type).
4. Click OK. The command will be executed immediately, and its result will be reported in the [log](#). To show or hide the log window click on the double-arrow in the right bottom corner of the window.



### Execute a Command - SMS Sim2

Available commands		Supported
<input type="radio"/>	Block engine	✓
<input type="radio"/>	Send custom message	✓
<input type="radio"/>	Deactivate output	✓
<input type="radio"/>	Activate output	✓
<input checked="" type="radio"/>	Locate device	✓
<input type="radio"/>	Set online report period	✓
<input type="radio"/>	Unblock engine	✓
<input type="radio"/>	Working interval 2 min	✓
<input type="radio"/>	Night interval 60	✓

*Note.*

If a command you are trying to send has the same name but belong to different types and parameters are not adjusted, then it will be sent without parameters and thus may not be executed properly.