



KYLOS FOREVER

User Guide

Version 1.0

April 2015

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1. Introduction

If you need a once-a-day notification to ensure that your equipment is operating securely, we have the right asset tracking device for you. Kylos Forever will watch over your assets or equipment placed in remote areas for months at a time, with its battery that lasts up to 3 years. This way, you can keep up with what's going in your most isolated sites, and reduce the risk of having your equipment stolen, lost or possibly forgotten.

While the device is in sleep mode, it will “wake up” and report any situation which appears to be out of the ordinary or unexpected.

Kylos Forever is a standalone unit, capable of operating without the need for any connection or external wiring – this makes it easily hidden if required, for example in a motorcycle.



2. Package Contents



1. Kylos Forever unit
2. Kylos Forever USB programming cable
3. AC charger for units with rechargeable batteries

NOTE: Kylos Forever units can be provided with rechargeable and non-rechargeable batteries.

3. Product Description



1. On/Off button.
2. LED indicator

To turn the unit on, press and hold the On/Off button. The LED will flash 5 times with a white light and then turn **green** (if the battery is fully charged), or **red** (if the battery is used). When continuing to press the Operation button over 3 seconds, the LED will turn white and start sending a "Button On" message.

After this the LED will blink **green** until the unit successfully sends a message (or 5 minutes have passed). The LED will blink **red** until the unit successfully finds the GPS position (or 5 minutes have passed).

To turn the unit off, press and hold the Operation button until the light turns white and then turns off.

Rechargeable and non-rechargeable batteries

Kylos Forever units can be provided with rechargeable and non-rechargeable batteries.

If you're not sure whether the unit you received has rechargeable or non-rechargeable battery, remove the unit cover and look at the battery. Rechargeable battery is blue, non-rechargeable battery is white/black/red.



Rechargeable battery unit

Non-rechargeable battery unit

WARNING: Attempting to charge a non-rechargeable battery may result in in personal injury and battery damage.

Technical specifications

Battery	Type	Lithium-ion
	Power	3.6 V, 5000 mAh
Temperature	Operational	-20°C to +60°C
	Storage	-40°C to +85°C
Operating Humidity		Up to 100%
Size		165 x 35 x 40 mm
Weight		200 grams
Cellular Communication	GSM/GPRS (default)	Quad Band (850, 900, 1800, 1900)
	Optional modems	UMTS/HSPA+, CDMA/1xRTT/EV-DO
	Antenna type	Built-in (concealed)
	Data channels	SMS and TCP/IP
	Protocol	Propriety – encrypted
Network	Data	GSM, GPRS and SMS
Messages	SMS	Encrypted protocol
	GPRS	TCP/IP over PPP
GPS	Systems	GPS, GLONASS (optional)
	Receiver and antenna	Internal
	Protocol	NMEA (Binary format)
	Positioning accuracy	10m CEP (50%)
	Velocity	0.2 m/s (50%)
	Navigation update rate	1 second (default)
	Navigation method	All-in-view solution, 2-satellite solution, A-GPS
CPU Capacity	Static RAM	128 Kb
	Nonvolatile memory	34 Kb
	Flash memory	2048 Kb

Access Port	Type	TTL (USB cable is available)
Power Consumption	Sleep/Idle	0.05 mAh
	GPS only	75 mAh
	GPRS only	100 mAh
	GPS and GPRS	165 mAh
Battery Life	Transmissions	Every 24 hours
	Work time	3 years

Industry approvals and certifications



For available certificates, see:

<http://wiki.starcomsystems.com/wiki/index.php/Marketing#Certifications>.

4. Configuration

Downloading the Software

For the link to download the Installer application setup file, please contact Starcom technical support by **Email:** support@starcomsystems.com, or **Skype:** [starcom.support](#).

Installing the Software

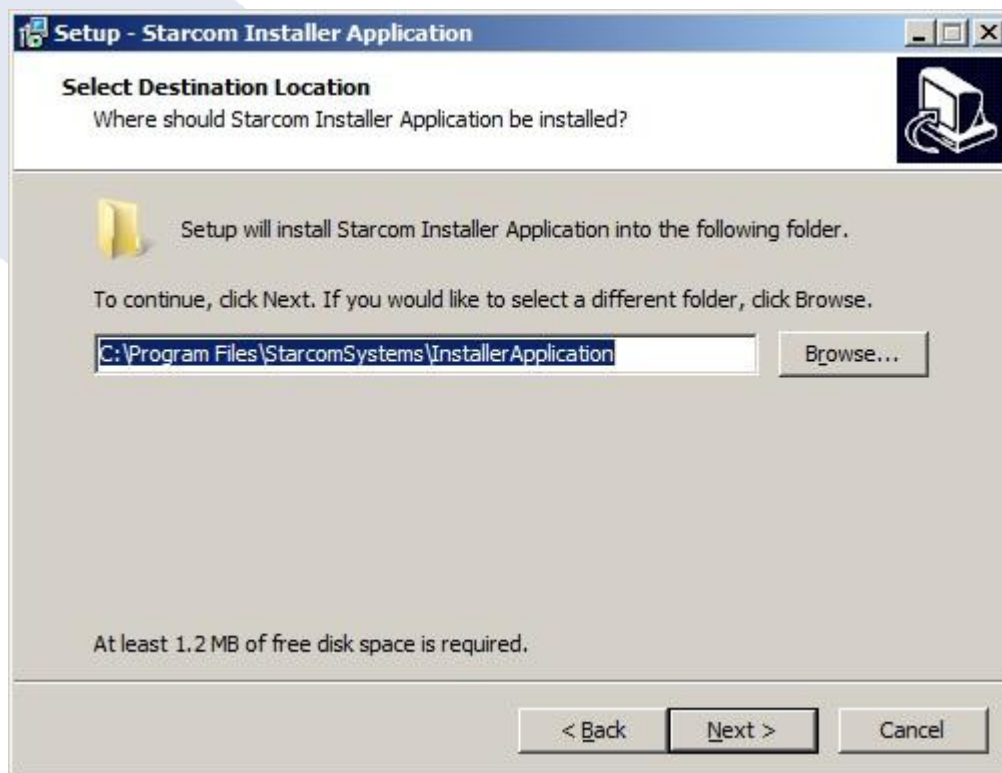
Locate the folder where you saved the installer setup file. Double-click the **InstallSetup.exe**. The Open File dialog box appears.



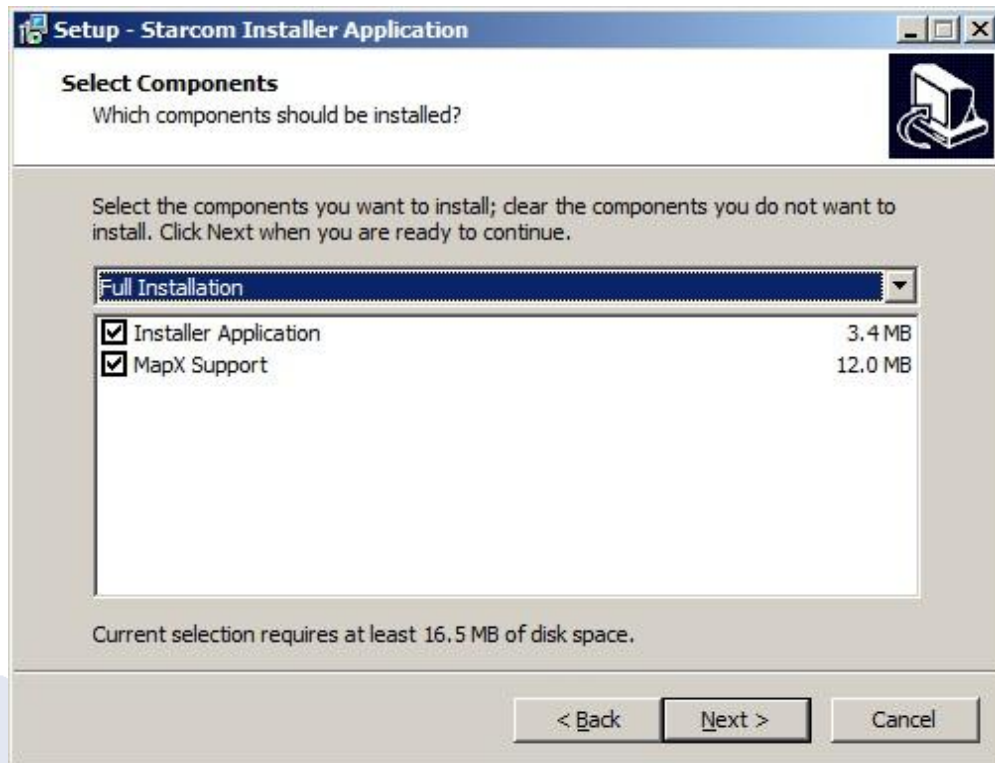
Click **Run**. A Windows Security dialog box appears. Click **Yes**. The Welcome to the Starcom Installer Application Setup Wizard window appears.



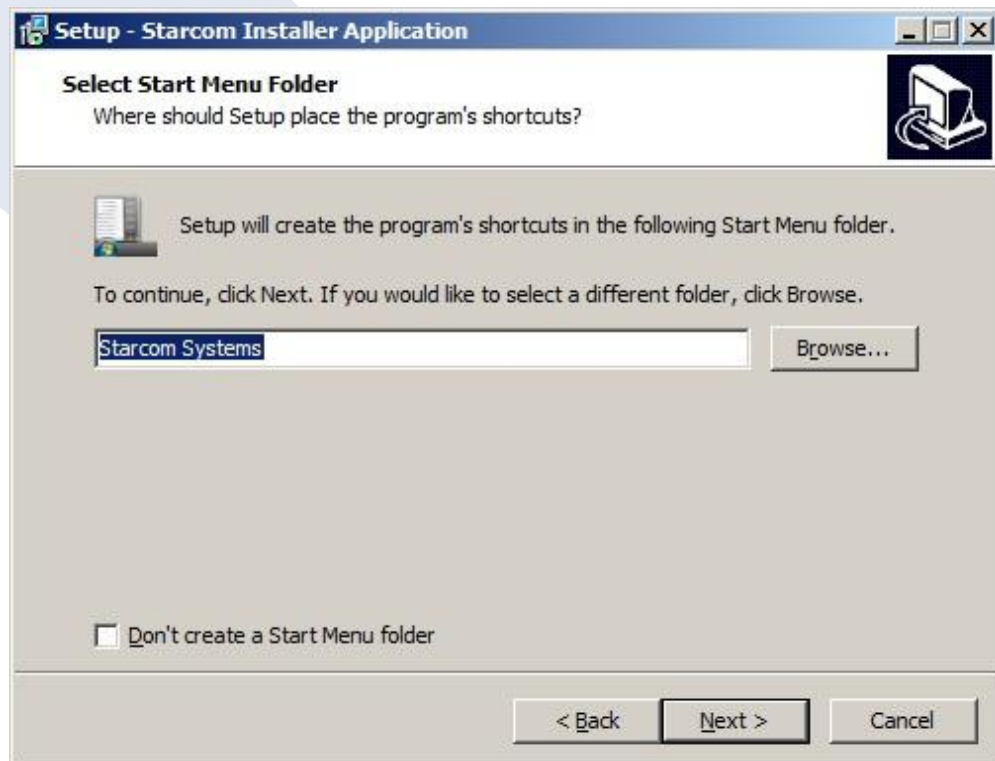
Click **Next**. The Select Destination Location window appears.



Click **Next**. The Select Components window appears.

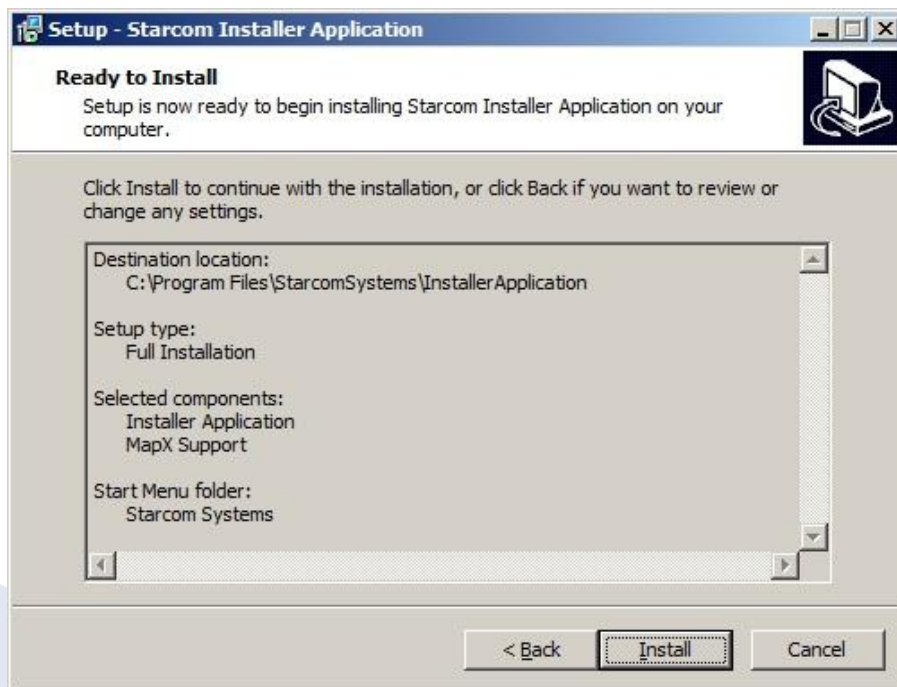


Click **Next**. The Select Start Menu Folder window appears.

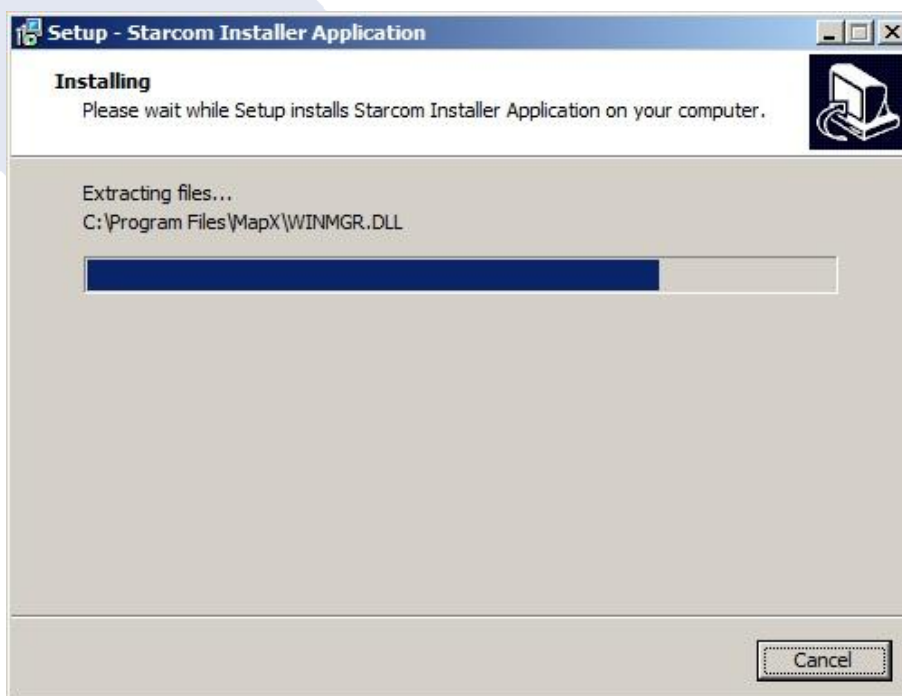


NOTE: Select **Don't create a Start Menu folder** checkbox, if you do not want to create a start menu folder.

Click **Next**. The Ready to Install window appears.



Click **Install**. The installation starts and a progress bar appears in the window, indicating the progress of the installation.



When the installation is complete, the Completing the Starcom Installer Application Setup Wizard window appears.



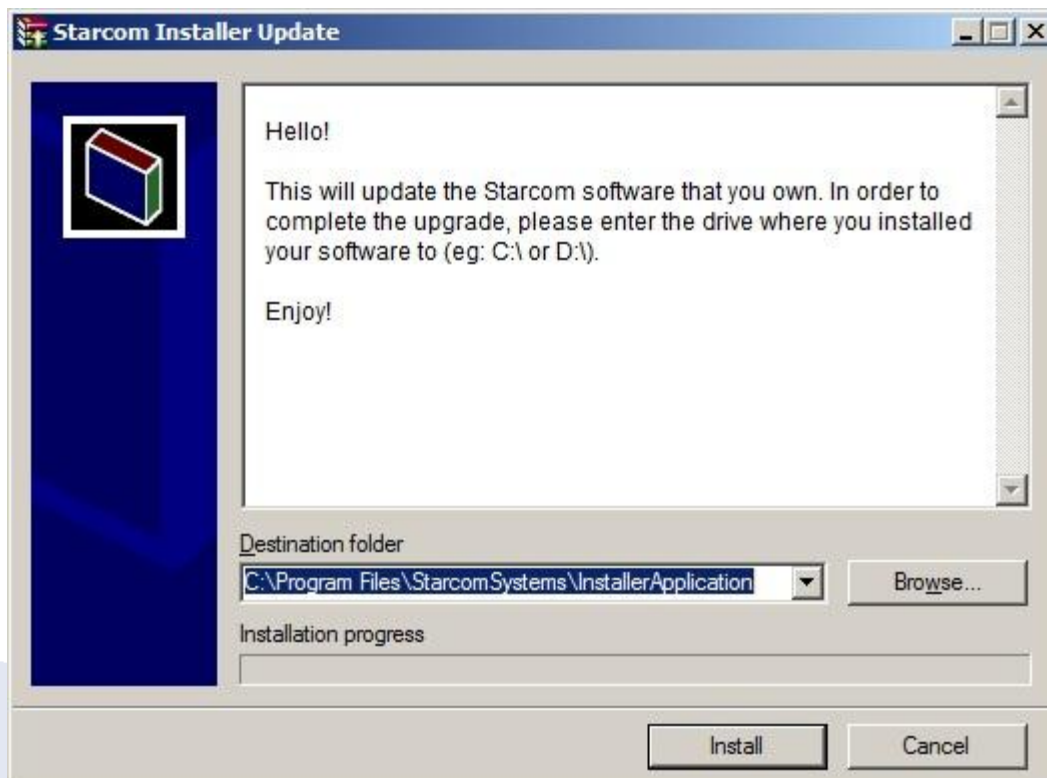
Click **Finish**.

Installing the Update

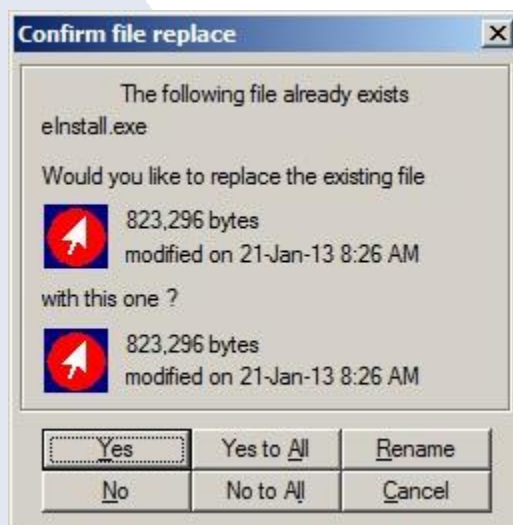
To install the Installer update software, locate the folder where you saved the update file. Double-click **IUpdate.exe**. The Open File dialog box appears.



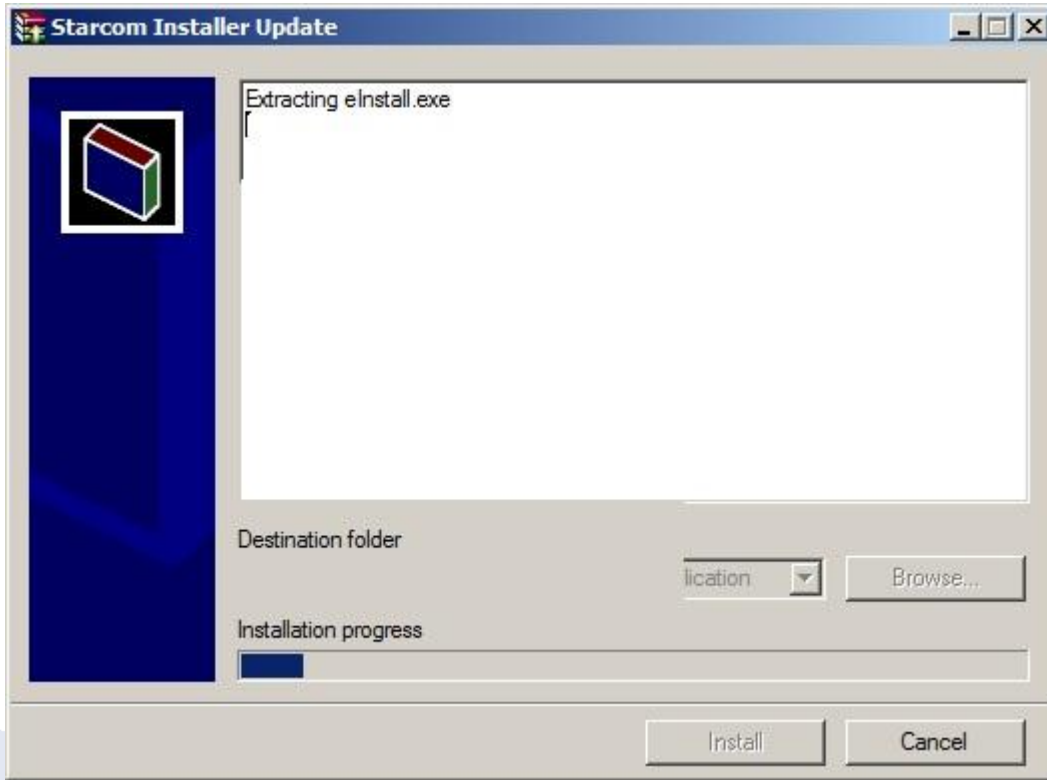
Click **Run**. The Starcom Installer Update window appears.



Verify that the Destination folder points to the location where the Starcom Installer software is installed and click **Install**. A Windows Security dialog box appears. Click **Yes**. The Confirm file replace dialog box appears.



Click **Yes to All**. The installation starts and a progress bar appears in the window, indicating the progress of the installation.



The Starcom Installer Update window closes, when the update is complete.

Installing the cable driver

The Kylos Forever cable driver can be downloaded from the following link:

<http://www.ftdichip.com/Drivers/VCP.htm>

Download the driver for the proper Windows version.

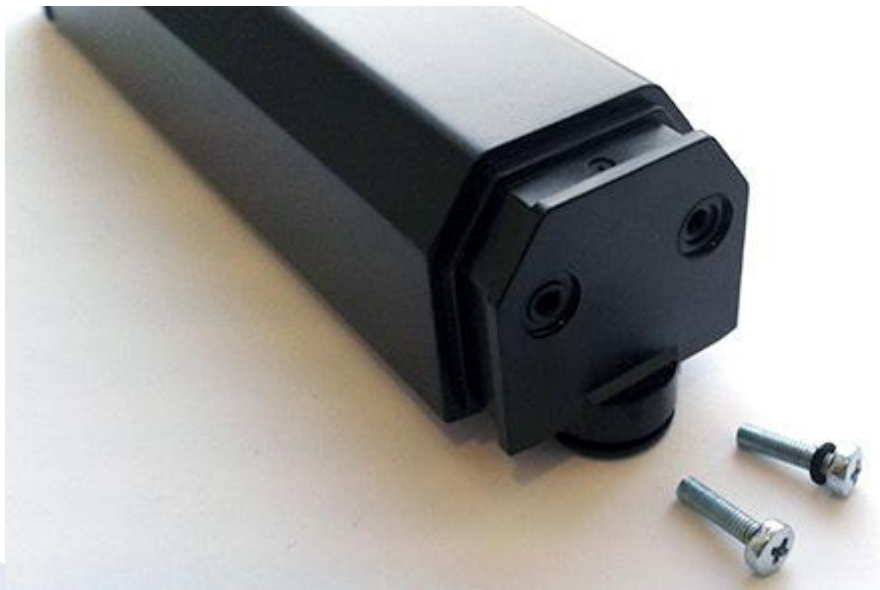
The driver Installation Guide can be found at the following location:

<http://www.ftdichip.com/Support/Documents/InstallGuides.htm>

Download the Installation Guide for the proper Windows version. Follow the instructions in the Guide to install the cable driver.

Inserting the SIM card

Use a Phillips screwdriver to remove the two screws, as shown in the following image.



Insert a flat screwdriver in the slot between the unit parts. Carefully twist the screwdriver to release the inner part from the outer case.





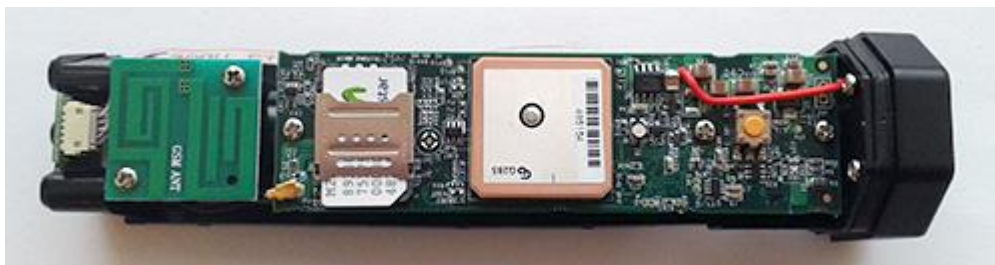
Gently push and pull back the SIM card holder to release and open the SIM card slot.



Place the SIM card in the SIM card slot with its gold contacts facing down, as shown in the following image.

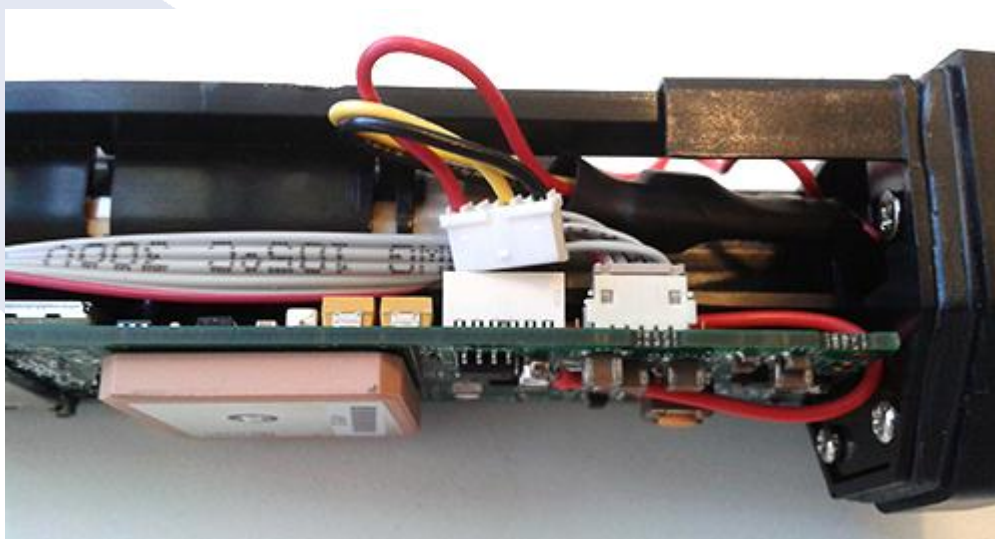


Lower the SIM card holder back to the horizontal position. Gently press and push the SIM card holder forward to snap it back into place.

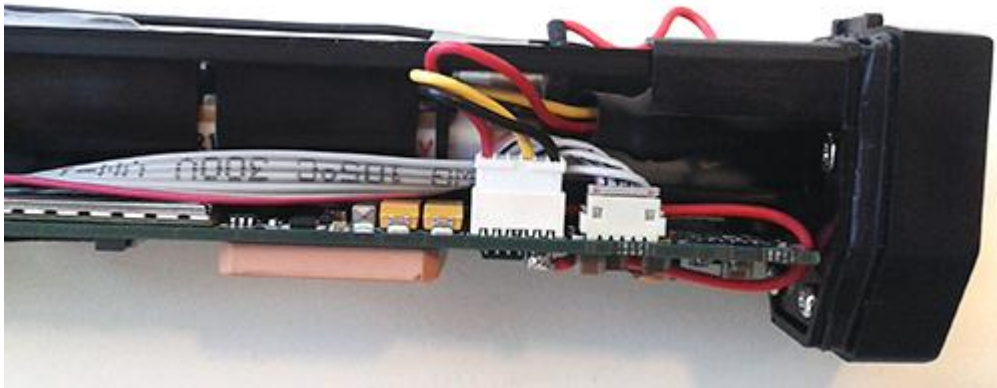


Connecting the non-rechargeable battery

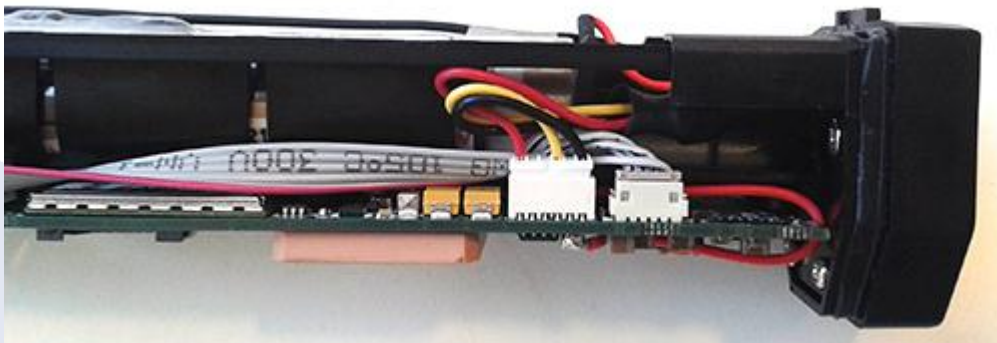
Units with non-rechargeable batteries are shipped with the battery connector detached, in order to preserve battery life. Prior to use, the battery must be connected.



Carefully insert the battery connector into the connector socket on the circuit board.



Push the connector into the socket until it is fully inserted.



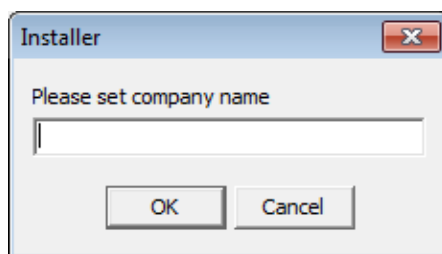
Connecting the unit to the computer

Press the On/Off button to turn the unit on.

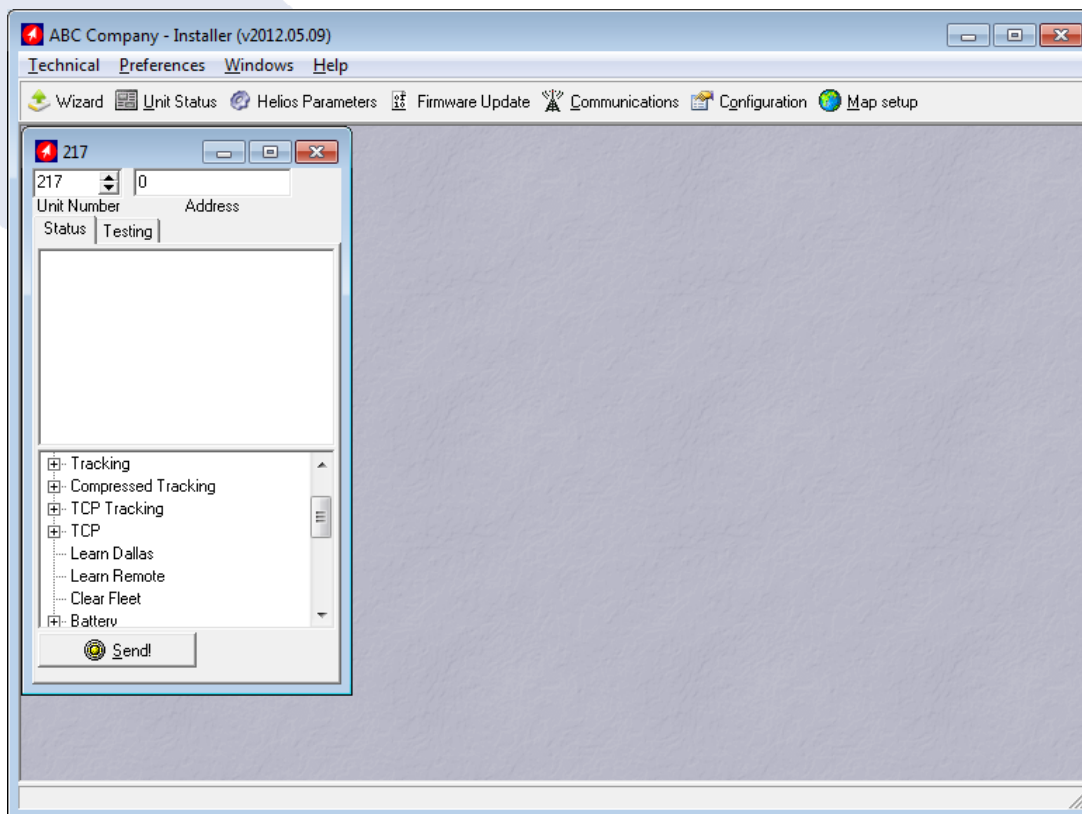
Connect the Kylos Forever programming USB cable to the USB output on the unit and to the USB port on your computer.


Configuring the unit

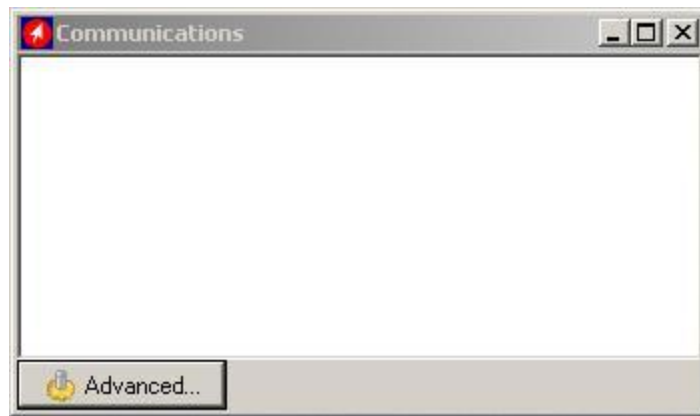
To open the Installer application, from the **Start** menu select **Starcom Systems > Installer Application**. The Installer company name window appears.




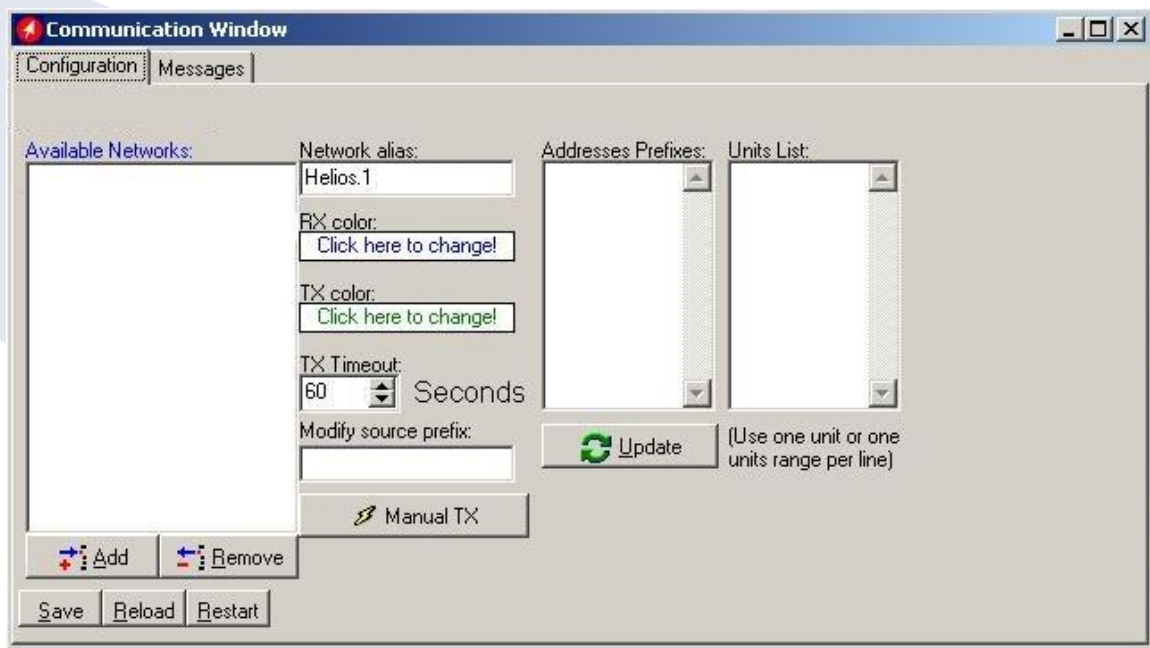
Enter your company name and click **OK**. The Installer window appears.




Click **Technical > Communications**, or press the **Communications** button  **Communications** on the taskbar at the top of the window.



Click the **Advanced** button  **Advanced...**. The Communications Window will appear.

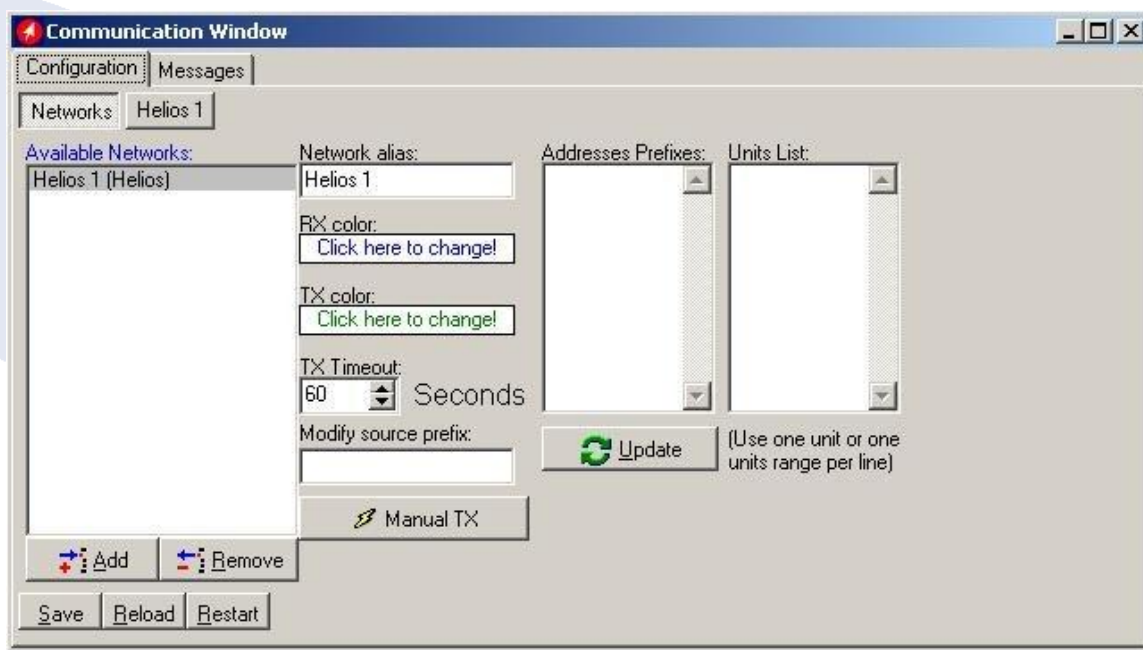


Click the **Add** button  **Add**. The Network Selection window appears.

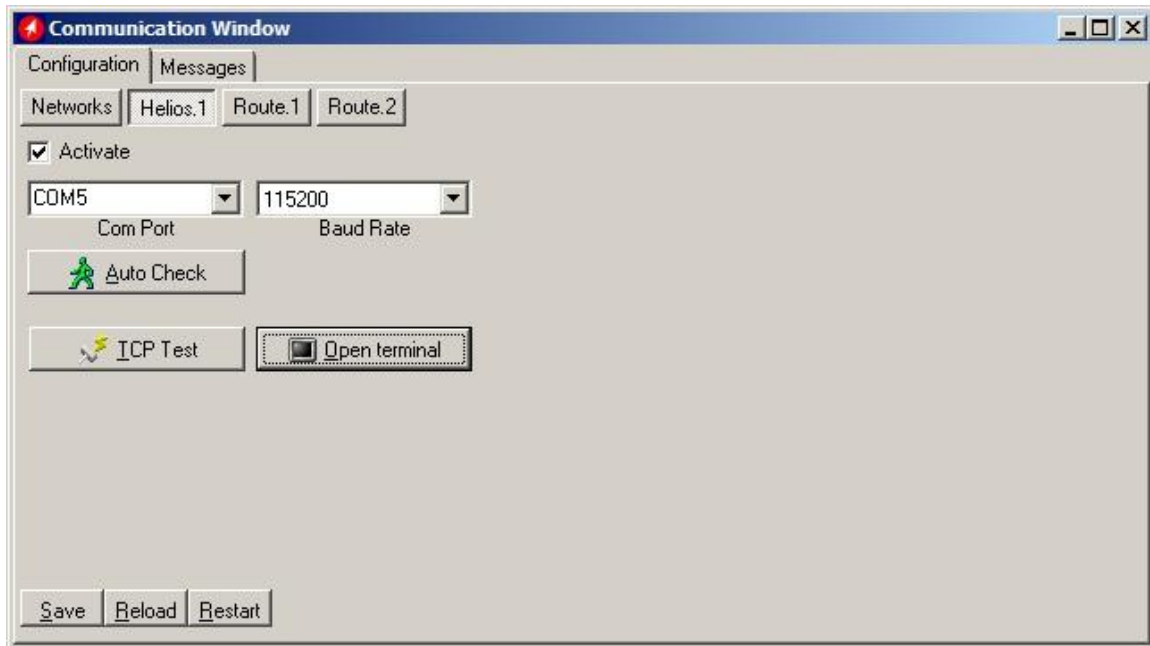


Select **Helios** from the list and press **OK** to add a Helios network.

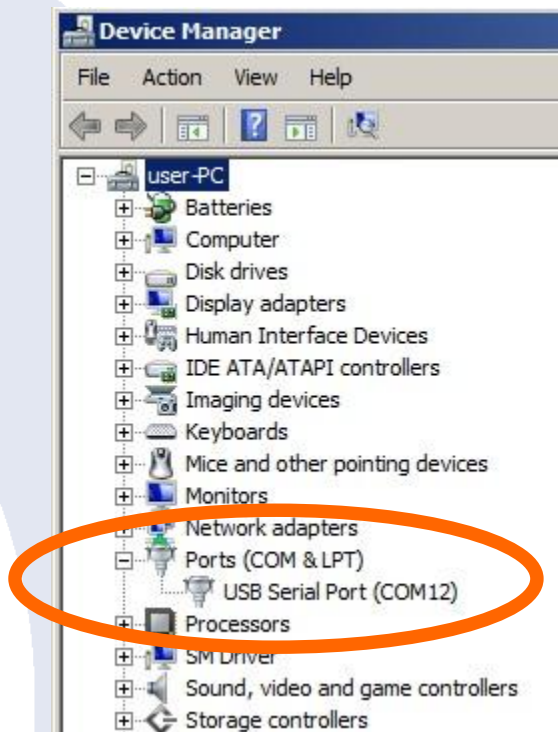
The Communications Window will now display the new connection in the Available Networks list, which is named **Helios 1**. (The name "Helios" in this case of the unit connection to the Installer applies globally to all unit types).



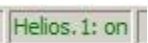
Click on **Helios.1** button to configure and activate the connection.



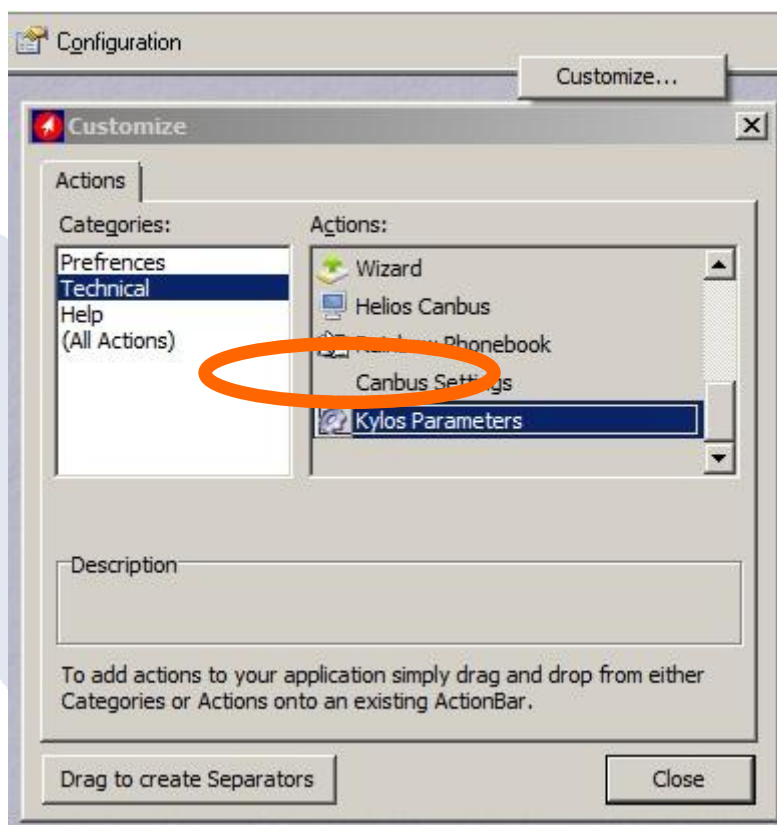
Select the COM port number of the Kylos Forever cable port in the **Com Port** menu. In order to verify the COM port being used by Kylos Forever in your computer, go to **My Computer > Manage > Device Manager > Ports**.



Set the **Baud Rate** to 115200. Check the **Activate** checkbox and click **Save**.

If the unit has connected successfully, a "Helios.1: on" notification will appear in green color at the bottom left corner of the Installer application main screen  .

To access the unit parameters, press **Technical > Kylos Parameters**, or right click on the taskbar at the top of the Installer application window and press **Customize**. Select **Kylos Parameters** and drag/drop it into the taskbar.



Press on **Kylos Parameters** and use the settings to configure the unit.

Press the **Read from unit** button  to read the parameters already configured in the unit.

Network settings

This tab allows you to enter all the parameters necessary for the unit to connect to the network.

The screenshot shows the 'Kylos Parameters' window with the 'Network' tab selected. The window has a title bar with standard OS controls. Below the title bar are buttons for 'Load' and 'Save'. A row of buttons includes 'Select All', 'Read from unit', 'Send', and two radio buttons for 'Single unit' and 'Multiple units'. Below these are input fields for 'Unit Number' (containing '557448') and 'Address'. The 'Network' tab is active, showing a list of checkboxes for 'SMS Destination' (with an empty text box), 'internet', 'GPRS APN' (containing 'routing1.starcomsystems'), 'GPRS Username' (containing 'blank'), 'GPRS Password' (containing 'blank'), 'First server' (containing 'routing1.starcomsystems'), 'Port' (containing '6600'), 'Secondary Server' (containing 'routing2.starcomsystems'), and 'Port' (containing '6600').

SMS Destination

The unit transmits via GPRS by default and via SMS as a backup, when GPRS connection is not available. The number to be entered in the **SMS Destination** field is the SIM card number used in the SMS Terminal unit connected to the routing server, or the SMPP target number. For more information, see *SMS Notifications guide*.

APN settings

The APN settings are essential in order for the Kylos Forever unit to transmit messages and alerts. The APN settings are provided by your cellular operator with the SIM card you are using in the Kylos Forever unit.

GPRS APN (Access Point Name) – the name of the gateway provided by your cellular operator (e.g. internet).

GPRS Username – username provided by your cellular operator (e.g. blank).

GPRS Password – password provided by your cellular operator (e.g. blank).

First server – main routing server, which the units transmit to (by default, it is Starcom Systems server 1).

Secondary server – auxiliary routing server, which the units transmit to (by default, it is Starcom Systems server 2).

Port – port open for communication on the routing server (default port is 6600).

Transmission Rates settings

This tab allows you to configure the intervals of regular tracking transmissions, which define how often the unit will transmit its status.

The screenshot shows the 'Kylos Parameters' window with the 'Transmission Rates' tab selected. The window has a title bar with standard window controls. Below the title bar are buttons for 'Load' and 'Save'. A row of buttons includes 'Select All', 'Read from unit', 'Send', and two radio buttons for 'Single unit' and 'Multiple units'. Below these are input fields for 'Unit Number' (containing '0') and 'Address'. A tabbed interface at the bottom shows 'Network', 'Transmission Rates' (active), and 'Hardware'. The 'Transmission Rates' tab contains a section titled 'Intervals' with three rows: 'Transmission' (checked, 60 min), 'GPS Peek' (checked, 60 min), and 'Logging' (checked, 30 min). Below this is a section 'Send messages from the memory by:' with the note '(Regular GPRS will always be used)'. It contains two checkboxes: 'SMS' (unchecked) and 'Roaming GPRS' (checked).

Transmission – interval of regular tracking transmissions, which defines how often the unit will transmit its status.

GPS Peek – interval of the GPS update, which defines how often the unit's GPS module will update its location.

Logging – interval of data logging, during which the unit will wake up only for a few seconds to record its current state, but will not transmit. The information will be transmitted along with the next transmission (tracking).

Transmission and GPS Peek values are usually left the same. In some instances, these parameters can be configured with different values. For example:

GPS Peek can be *faster* than Transmission when between the regular transmissions the unit can enter or exit a specified perimeter. In such case, a Perimeter event created on Starcom Online will be triggered by the change in the unit location. For more information, see *Chapter 7 – Monitoring*.

GPS Peek can be *slower* than Transmission when the unit is installed in a remote location for long periods of time, when the GPS update is not really required. In such case, Transmission can be set for 1 day, for example, and GPS Peek can be set for 5 days (highest value) to save battery power.

NOTE: It is recommended to configure the unit to transmit once a day, as shown in the following image.



With this configuration, the battery should serve for 3 years.

Transmission rates determine how long the battery will stay charged. Every transmission uses the battery. The faster the transmission rate, the faster the battery will end.

When the device is out of GPRS coverage, the messages will be saved to the unit memory. Messages saved in the memory can be sent when the unit resumes the connection to home cellular network, or to the roaming network, if the SIM card used in the unit has a roaming service enabled by your cellular provider.

SMS – select this option if you want the unit to transmit messages saved in the memory via SMS. The unit transmits by GPRS by default and by SMS as a backup when GPRS connection is not available. For more information, see *Appendix A – Unit Communication in Starcom Systems*.

Roaming GPRS – select this option if you want the unit to transmit messages saved in the memory via roaming GPRS. In order for this to work, the SIM card used in the unit must have a roaming service enabled by your cellular provider.

Hardware settings

This tab allows you to configure various hardware settings.

The screenshot shows the 'Hardware' tab selected in the software interface. The settings are as follows:

- ☐ Use 57600 baud rate*
- ☐ Light sensor alerts
- ☐ Use location updates
- ☐ Location by Cellular
- ☐ Use debugging beeps
- ☐ Transmit after first start-up or restart
- ☐ Use A-GPS
- Temperature Low: ☐ <Disabled>
- Temperature High: ☐ <Disabled>
- Weak Impact: ☐ Force (g): Disable, Duration (mSec): 0
- Strong Impact: ☐ Force (g): Disable, Duration (mSec): 0
- ☐ Quarter scale

Use 57600 baud rate – if this option is activated, the device will use 57,600 bps to communicate. *Do not use.*

Light sensor alerts – light sensor enabling option. *Not relevant for Kylos Forever.*

Use location updates – GPS enabling option. Once activated, the unit's GPS module will be turned on upon every transmission, and location update transmissions will be sent.

Location by Cellular – when enabled, location lookup will be done according to cellular antennas if GPS is not available.

Use debugging beeps – factory testing setting. *Do not use.*

Transmit after first start-up or restart – if this option is activated, a "Power On" message will be transmitted whenever the unit is powered on for the first time, or gets restarted.

Temperature Low / Temperature High – temperature sensor parameters. *Not relevant for Kylos Forever.*

Weak Impact / Strong Impact –accelerometer parameters used to define two types of impact (hit, push, drop. etc.) on the device *Relevant for units with rechargeable battery only.*

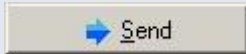
Force (g) – determines the threshold of the force needed to be measured in order to send an alert. Select "Disabled", if you don't wish to use the alert.

Duration (msec) – determines the duration of the force needed to be measured in order to send an alert.

Quarter scale – if on, the Weak Impact force will be scaled in quarter of a g. This option can be used to make the accelerometer more sensitive to smaller impacts.


The default values configured in the unit are based on the laboratory testing results, they were found to be acceptable in most cases. These values can be tested and changed according to the specifics of your work. To change these values according to specific conditions, you need to test the unit with different values and choose the best option. The lower the setting, the more often the unit will respond to a weaker impact.

Once all the necessary parameters are set, press the **Send** button






to send the changes you made to the unit.

Saving the configuration

If you are planning to configure other units with the same parameters, you can save these settings as a *.mem file. Click the **Save** button  in the Kylos Parameters window, select the location where you want the configuration file to be saved on your computer, name the file and press **Save**.

Configuring a new unit with the saved configuration

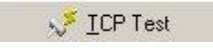
To configure a new unit with the saved parameters, click the **Load** button  in the Kylos Parameters window, browse to the location where you saved the configuration file, select the file and press **Open**. Click the **Select All** button  to select all the parameters and press the **Send** button  to send the changes to the unit.

5. Testing

It is important to test the unit connection to the network, the correct GPS location, the unit status and inputs response before installing the unit in the container. In order to do this, you need to perform the following steps.

TCP test

This test verifies that the SIM card is open to the GPRS network, the unit can connect to the network and make successful TCP/IP transmissions.

Press the **TCP Test** button  (**Communications > Advanced > Communication Window > Configuration > Helios.1**). Wait a few minutes until you receive a pop-up window with a successful connection message.



If at the end of the TCP Test you do not receive a successful message, check your APN settings (Kylos Parameters > Network). Contact your cellular provider and make sure the SIM card is open for GPRS. Verify that your SIM card is not protected by a PIN code. If necessary, use a mobile phone to cancel the PIN code.

You can also perform the test manually using the **Terminal** window. Open the Terminal window (**Communications > Advanced > Communication Window > Configuration > Helios.1 > Open Terminal**) and type the following commands:

\tdm and press **Enter** (Modem mode). The modem will be turned on.

\tr and press **Enter**. This command runs a series of actions to check the parameters such as reception level, visible networks and registered network, SIM card state and information. It also attempts to connect to the routing server. If successful, a "TCP: Send+" message will appear in the Terminal window.

```

Helios.1
\tf1Testing Mode On
\tadm
Modem mode.
\ttr
INIT
AT+MIPCALL=0
ERROR
AT+CGPRS?
+CGPRS: 1
OK
AT
OK
AT+MIPCALL=1,"internet","blank","blank"
OK
+MIPCALL: 31.154.153.213
TCP: Registered
TCP: Opening socket
AT+MIPCLOSE=1
ERROR
AT+MIPOPEN=1,1034,"routing11starcomsystems.com",6600,0

```

GPS test

NOTE: If you're testing the unit inside the building, it will not be able to get a GPS signal in most cases. In order to get a proper GPS location, the unit has to be placed outside the building, or outside the window, where it can access the satellites.

Open the Terminal window (**Communications > Advanced > Communication Window > Configuration > Helios.1 > Open Terminal**) and type **\tdg** (GPS mode). GPS readings will be displayed. When you see "A,3"... reading, it will indicate a GPS fix signal.

```

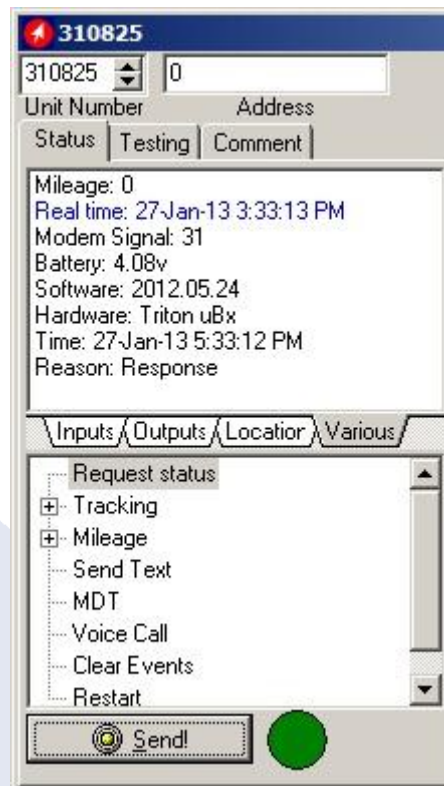
Helios.1
$GPRMC,000.0,T,M,000.0,N,000.0,E,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,A*00
$GPGGA,1.0,1732.117,3205.0332,N,03448.3701,E,1.10,0.9,86.7,M,17.9,M,0.0,0000*6B
$GPGSA,A,3,11,03,32,19,14,22,01,20,23,31,,1.9,0.9,1.6*3B
$GPGSU,3,1,10,11,74,271,41,01,57,322,43,32,56,319,43,31,36,116,41*75
$GPGSV,3,2,10,20,34,294,39,19,33,201,40,14,25,041,38,23,22,224,39*75
$GPGSU,3,3,10,22,13,077,37,03,12,188,33*7F
$GPRMC,101732.117,A,3205.0332,N,03448.3701,E,000.0,000.0,240113,,A*62
$GPRMC,000.0,T,M,000.0,N,000.0,E,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,A*00
$GPGGA,1.0,1733.117,3205.0335,N,03448.3700,E,1.10,0.9,86.1,M,17.9,M,0.0,0000*6A
$GPGSA,A,3,11,03,32,19,14,22,01,20,23,31,,1.9,0.9,1.6*3B
$GPGSU,3,1,10,11,74,271,41,01,57,322,43,32,56,319,43,31,36,116,41*75
$GPGSV,3,2,10,20,34,294,39,19,33,201,40,14,25,041,38,23,22,224,39*75
$GPGSU,3,3,10,22,13,077,37,03,12,188,33*7F
$GPRMC,101733.117,A,3205.0335,N,03448.3700,E,000.0,000.0,240113,,A*65
$GPRMC,000.0,T,M,000.0,N,000.0,E,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,A*00
$GPGGA,1.0,1734.117,3205.0330,N,03448.3697,E,1.10,0.9,86.5,M,17.9,M,0.0,0000*63
$GPGSA,A,3,11,03,32,19,14,22,01,20,23,31,,1.9,0.9,1.6*3B
$GPGSU,3,1,10,11,74,271,42,01,57,322,43,32,56,319,43,31,36,116,41*76
$GPGSV,3,2,10,20,34,294,40,19,33,201,40,14,25,041,38,23,22,224,39*7B
$GPGSU,3,3,10,22,13,077,37,03,12,188,34*78
$GPRMC,101735.117,A,3205.0328,N,03448.3694,E,000.0,000.0,240113,,A*63
$GPRMC,000.0,T,M,000.0,N,000.0,E,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,A*00
$GPGGA,1.0,1736.117

```

If you do not see any response, type **\tg1** to turn the GPS on and repeat the test.

Unit Status

Open the **Unit Status** window. Enter the unit number in the **Unit Number** field, select **Request status** and press **Send**. The unit information will appear.



Click on the **Inputs** tab, press the Door and Operation buttons, cover and uncover the light sensor, press Request status and check the response in the Unit Status window. Use the **Location** tab to check the unit's GPS data. Use the **Various** tab to see the unit information.

After all the tests have been performed successfully, the unit is ready to be installed. Disconnect the unit from the computer, slide the inner part back into the case and fasten the screws.

6. Installation

Before installing the unit with non-rechargeable battery, press the On/Off button for 3 seconds until you see the LED turn white. Release the button and will until both green and red blinks are over. Make sure you get a notification for the Button On.

Before installing the unit with rechargeable battery, press the On/Off button shortly and make sure the LED color is green. Otherwise recharge the battery.

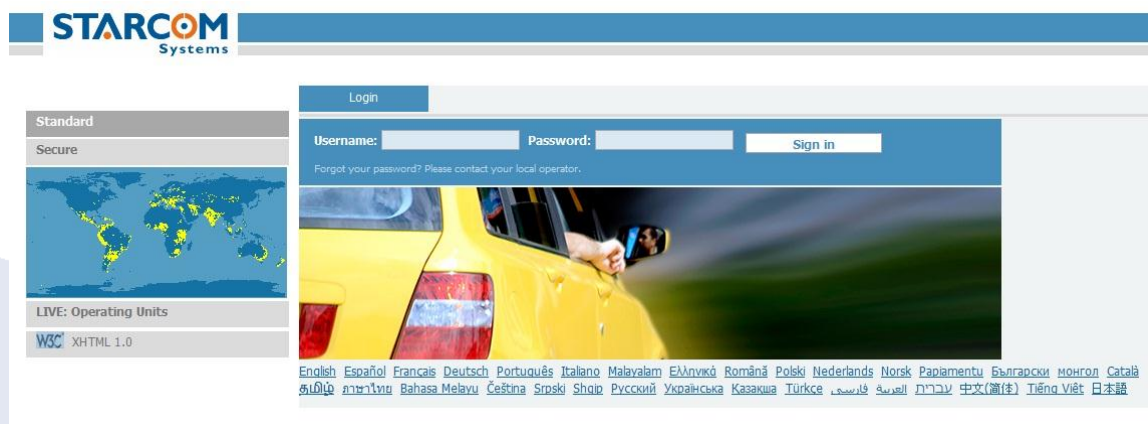
Charge the battery for at least **12 hours** prior to first use. After that, charge the battery for at least **6 hours** before each use.

Once the rechargeable battery is fully charged, press the On/Off button for 3 seconds until you see the LED turn white. Release the button and will until both green and red blinks are over. Make sure you get a notification for the Button On.

7. Monitoring

After the unit is installed, you can monitor its status on **Starcom Online**. Starcom Online is a web based fleet management application with a flexible event generator, which allows to set customizable notifications and alerts.

In your browser, go to <http://www.starcomsystems.com/online>. Enter your username and password in the **Username** and **Password** fields, and click **Sign in**.



Starcom Online horizontal menu bar features the following categories:

- **Home** – lists the most recently accessed units, including their location.
- **Resources** – allows to manage the unit and customer information.
- **Plans** – allows to create and manage events and alerts.
- **Monitor** – monitors the events and alerts from the unit.
- **Map** – displays the actual location of the unit on the map.
- **Reports** – generates reports of the unit activity.
- **Profile** – allows to configure your user properties.
- **Help** – contains tutorials and knowledge base.

Home

The Home section shows recently accessed units and latest site updates.



[Home](#)
[Resources](#)
[Plans](#)
[Monitor](#)
[Map](#)
[Reports](#)
[Profile](#)
[Help](#)

Recently accessed units [View Report](#)

Received	Vehicle	Location	Key / Speed (Kph)	Reason
19/01/2013 18:49:27	Bakers Choice	Carlton	Off / 0	Locked / Tracking
13/01/2013 07:06:06	BLPC	St George	Off / 0	Locked / Tracking

[\(Full list\)](#)

Quick list

[Units](#)
[What do you plan to do with the system?](#)
[Tutorials](#)

Latest Updates


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 [Follow @starcomsys](#)

 [Follow](#) 155

This section will inform you, the service administrator, about the latest updates applied to the service.

- NEW! 03/09/2012:** [Units](#): New field - "Active" which is set by default. No data will be collected for inactive units, they will appear as dimmed in the units list.
- NEW! 12/08/2012:** New Language - [Norwegian](#) (Norsk).
- NEW! 07/08/2012:** [Monitor - Settings](#): Added an option to show notifications only for specific time range at specific days of the week.
- NEW! 06/08/2012:** Mobile Interface: Added full device details, outgoing commands, and Google Maps usage.
- NEW! 06/08/2012:** [Map](#): Added confirmation when resizing perimeters on Google Maps.

In the Home section, you can find the following additional links:

Live status – displays the current status of all live units, as shown in the following image.

Live Status				
Received	Vehicle ^	Location	Key / Speed (Kph)	Reason
19/01/2013 18:49:27	Bakers Choice	Carlton	Off / 0	Locked / Tracking
13/01/2013 07:06:06	BLPC	St George	Off / 0	Locked / Tracking

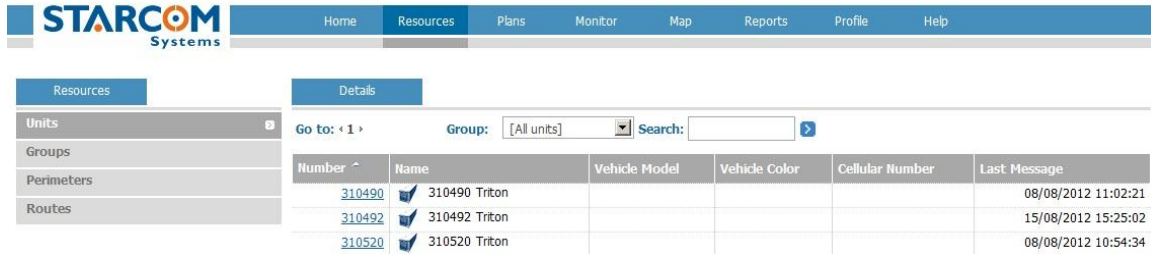
Full list – opens the Resources section that displays a full list of all your units.

Location – opens the Map section that displays a map showing the current location of the unit.

Quick List – links that enable you to access the Resources and Plans sections.

Resources

The Resources section shows all your units.



Number	Name	Vehicle Model	Vehicle Color	Cellular Number	Last Message
310490	310490 Triton				08/08/2012 11:02:21
310492	310492 Triton				15/08/2012 15:25:02
310520	310520 Triton				08/08/2012 10:54:34

On the left side, the Resources section features the following tabs:

Units – lists the units.

Groups – lists the groups of units and helps you create new and modify the existing groups.

Users – lists the users and helps you create new and modify the existing users.

Perimeters – lists perimeters and helps you define new and modify the existing perimeters.

Units

The **Units** page features the **Details** area, which arranges the unit information in the following columns:

Number – the unit serial number. Clicking on the unit number link will display the **Unit Information** page, where you can modify the unit information.

Name – displays the icon and the name of the unit. Clicking on it will reveal a pop-up menu with the quick access links to the Map and the Reports sections.

Cellular Number – displays the phone number of the SIM card installed in the unit.

Last Message – displays the time and date of the last message transmitted by the unit.

To create a new unit, click **New** (not available for evaluation kit users). The Unit Information page opens.

Unit Information

☒ Active

*Number

Name

Cellular Number

Unit Type

Helios

Events:

Workplans:

Terminal

N/A

Model

Color

Icon

Client

Simulation Kit

No Activity Alert (Hours)

336

Installation Location

Plate number

Registration number

Manufacturing date

Special signs

Users

Groups

Cellular Notification

Notify Address 1:

Notify Address 2:

Notify Address 3:

Notify Address 4:

Message

[TIME]: [UNIT]: [REASON] - [LOC]

Language

English

Units

kph

☐ Allow commands from any cellular number

☐ Allow status requests from any cellular number

Available reasons

No reason recorded
 Response
 Theft
 Event
 Ignition Off
 Ignition On
 Main Power Low
 Door Closed
 Door Opened
 Accident

Add

Remove

Notify for

Captions

Delete

Cancel

Save

Save and add another

Active – when selected (set by default), makes the unit active on Starcom Online. To make the unit inactive, deselect this checkbox. No data will be collected for inactive units; they will appear as dimmed in the units list.

Use this section to enter the unit **Number** and **Name**. In the **Cellular Number** field, enter the number of the SIM card installed in the unit. In the **Unit Type** list, select Triton (Kylos Forever uses Triton R board).

No Activity Alert (Hours) – used to receive an alert when the unit has stopped transmitting. The default value is 336 hours (2 weeks).

In the **Users** window, click on the plus (+) sign on the right and start typing the name of the user you want to make the unit available for in the Search field. The name of the user will appear in the dropdown list. Click on it to add it to the Users list. To remove the user, click on the minus sign (-) on the left of the user name.

In the **Groups** window, click on the plus (+) sign on the right and start typing the name of the group you want to make the unit available for in the Search field. The name of the group will appear in the dropdown list. Click on it to add it to the Groups list. To remove the group, click on the minus sign (-) on the left of the group name.

Use the **Cellular Notification** section to configure the cellular notifications for different events.

Notify Address 1-4 – enter the cellular numbers you want to receive notifications to when the events occur.

Message – modify the notification message format. The following parameters are available: |TIME| |NUMBER| |VEHICLE| |REASON| |KEY| |DOOR| |HOOD| |SPEED| |MILEAGE| |XY| |BATTERY|.

Language – select the language in which you want to receive the message.

Units (kph/mpg) – select the measurement you want to receive the speed data in.

In the **Available reasons** list, select the reasons you want to receive an alert for and click **Add**. The reasons will be moved to the **Notify for** list.

When finished, click **Apply**. The new unit is saved.

To modify a unit, in the **Units** page, click on the unit name link of the unit you want to modify. The Unit Information page appears. Modify the unit details as required. Click **Apply**. The modified unit details are saved.

To delete a unit, in the **Units** page, click on the unit name link of the unit you want to delete. The Unit Information page appears. Click **Delete**. The unit is deleted.

Groups

You can create new and modify the existing groups of units.



To create a new group, click **New**. The Group page opens.



The screenshot shows the 'Group' creation form. It has a 'Name:' field with the text 'New Group'. Below this are two sections: 'Units' and 'Users', each with a '+' button and a list area. At the bottom, there is a 'Sharing' section with four checkboxes: 'Share Perimeters', 'Share Routes', 'Share Events', and 'Share Drivers'. At the very bottom are three buttons: 'Delete' (with a red X icon), 'Cancel' (with a blue X icon), and 'Apply' (with a green checkmark icon).

In the **Name** field enter the name of the new group.

In the **Units** window, click on the plus (+) sign on the right and start typing the name of the unit you want to make the unit available for in the Search field. The name of the unit will appear in the dropdown list. Click on it to add it to the Units list. To remove the unit, click on the minus sign (-) on the left of the unit name.

In the **Users** window, click on the plus (+) sign on the right and start typing the name of the user you want to make the unit available for in the Search field. The name of the user will appear in the dropdown list. Click on it to add it to the Users list. To remove the user, click on the minus sign (-) on the left of the user name.

In the **Sharing** section, click the respective checkbox, if you want the group to **Share Perimeters** or **Share Events**.

Click **Apply**. The new group is saved.

To modify a group, in the **Groups** page, click on the group name link of the group you want to modify. The Group page appears. Modify the group details as required. Click **Apply**. The modified group details are saved.

To delete a group, in the **Groups** page, click on the group name link of the group you want to delete. The Group page appears. Click **Delete**. The group is deleted.

Users

You can create new and modify the existing users.

Username	Full Name	Company	Phone	E-Mail	Last Login	Created By
testuser	Test	Test		test@test.com	N/A	

To create a new user, click **New**. The Users page opens. Here you can enter the new user information and define their access permissions.

Users		Permissions	
*Username:	<input type="text"/>	<input type="checkbox"/> Account is locked	
*Password:	<input type="password"/>	Client:	<input type="text" value="Simulation Kit"/>
Full Name:	<input type="text"/>	Template:	<input type="text" value="Starcom"/>
Company:	<input type="text"/>	Report Access...	
Address:	<input type="text"/>	<input type="checkbox"/> Watchlock user	
City:	<input type="text"/>	<input type="checkbox"/> Google Maps access	
ZIP Code:	<input type="text"/>	<input checked="" type="checkbox"/> Allow status requests	
Country:	<input type="text"/>	<input checked="" type="checkbox"/> Allow outgoing commands	
Phone:	<input type="text"/>	<input type="checkbox"/> Allow stopping vehicle	
*E-Mail:	<input type="text"/>	<input type="checkbox"/> Allow logic state changing	
Language:	<input type="text" value="English"/>	<input type="checkbox"/> Allow clearing fleet	
Time Zone:	GMT +5	<input checked="" type="checkbox"/> Cellular Commands	
Date Format:	15/01/2015	<input checked="" type="checkbox"/> Cellular Notification	
Time Format:	06:09:00 PM	<input type="checkbox"/> Mobile Application	
Logout time out (Hours):	1	<input type="checkbox"/> Lock account after 5 bad login attempts	
Distance Units:	km	<input type="checkbox"/> Force password changing once a month	
Speed Units:	kph	<input type="checkbox"/> Allow editing cellular number	
Map Tooltip Format:	{VEHICLE} ({SPEED})	<input type="checkbox"/> Allow changing tracking interval	
Login Message:	<input type="text"/>	Control Center:	<input type="text" value="N/A"/>
Account expiration:	N/A	<input type="checkbox"/> Add Users	
Expiration message:	<input type="text"/>	<input type="checkbox"/> Add Units	
<input type="checkbox"/> All units		<input type="checkbox"/> Marketing section	
<input type="checkbox"/> Show coordinates in reports			
<input type="checkbox"/> Flash Maps			

Besides entering the user information, you can select the following options:

All units –all the user's units will be displayed on the Map page. If this option is disabled, only the selected unit will be displayed.

Show coordinates in reports – the user's reports will include the GPS coordinates.

Flash Maps – enables the user to see flash maps.

Report Access – allows to select which reports will be accessible for the user.

Google Maps access – enables Google Maps access on the Maps page.

Allow status requests – enables the user to make unit status requests.

Cellular Commands – enables the user to send commands to the unit from a cellular phone.

Cellular Notification – enables the user to receive cellular notifications.

Mobile Application – enables the user to use Starcom Mobile application. **Olympia Tracking**, Starcom Mobile application, allows to receive cellular notifications to your mobile phone. To install, use the following link: <http://starcomsystems.com/m/> (compatible with Android / Apple IOS).

Lock account after 5 bad login attempts – locks access to Starcom Online account after the user has made 5 bad login attempts.

Force password changing once a month – requires the user to change the password once a month.

Allow editing cellular number – enables the user to edit the phone number of the SIM card installed in the unit.

Allow changing tracking interval – enables the user to change the time of the unit tracking interval.

Users	Permissions
Copy from another user	
<div> <input checked="" type="checkbox"/> Resources <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Units - Edit <input checked="" type="checkbox"/> Units - Captions - Edit <input checked="" type="checkbox"/> Groups <input checked="" type="checkbox"/> Groups - Edit <input checked="" type="checkbox"/> Drivers <input checked="" type="checkbox"/> Drivers - Edit <input checked="" type="checkbox"/> Users <input checked="" type="checkbox"/> Users - Edit <input checked="" type="checkbox"/> Perimeters <input checked="" type="checkbox"/> Perimeters - Edit </div> <div> <input checked="" type="checkbox"/> Plans </div> <div> <input checked="" type="checkbox"/> Monitor </div> <div> <input checked="" type="checkbox"/> Help <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Map <input checked="" type="checkbox"/> Live Status <input checked="" type="checkbox"/> Profile </div> <div> <input checked="" type="checkbox"/> Reports </div>	
<div> <input checked="" type="checkbox"/> Delete <input checked="" type="checkbox"/> Cancel <input checked="" type="checkbox"/> Save </div>	

Permissions allow you to define the viewing and editing permissions of the user for all the sections of the site.

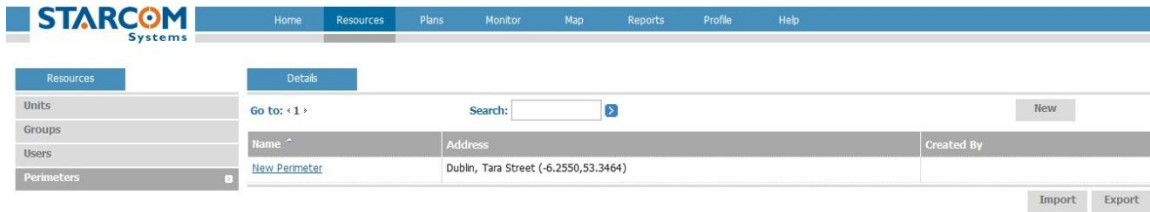
After you configured all the parameters, click **Apply**. The new user is saved.

To modify a user, in the **Users** page click on the user name link of the user you want to modify. The Users page appears. Modify the user details as required. Click **Apply**. The modified user details are saved.

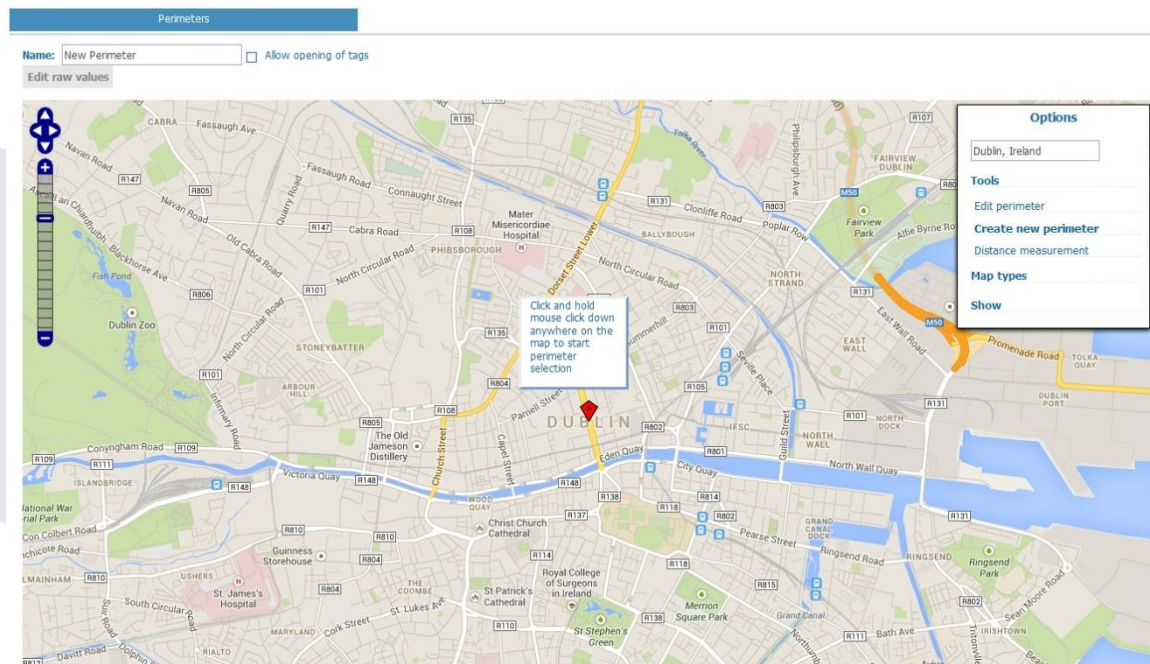
To delete a user, in the **Users** page click on the user name link of the user you want to delete. The Users page appears. Click **Delete**. The user is deleted.

Perimeters

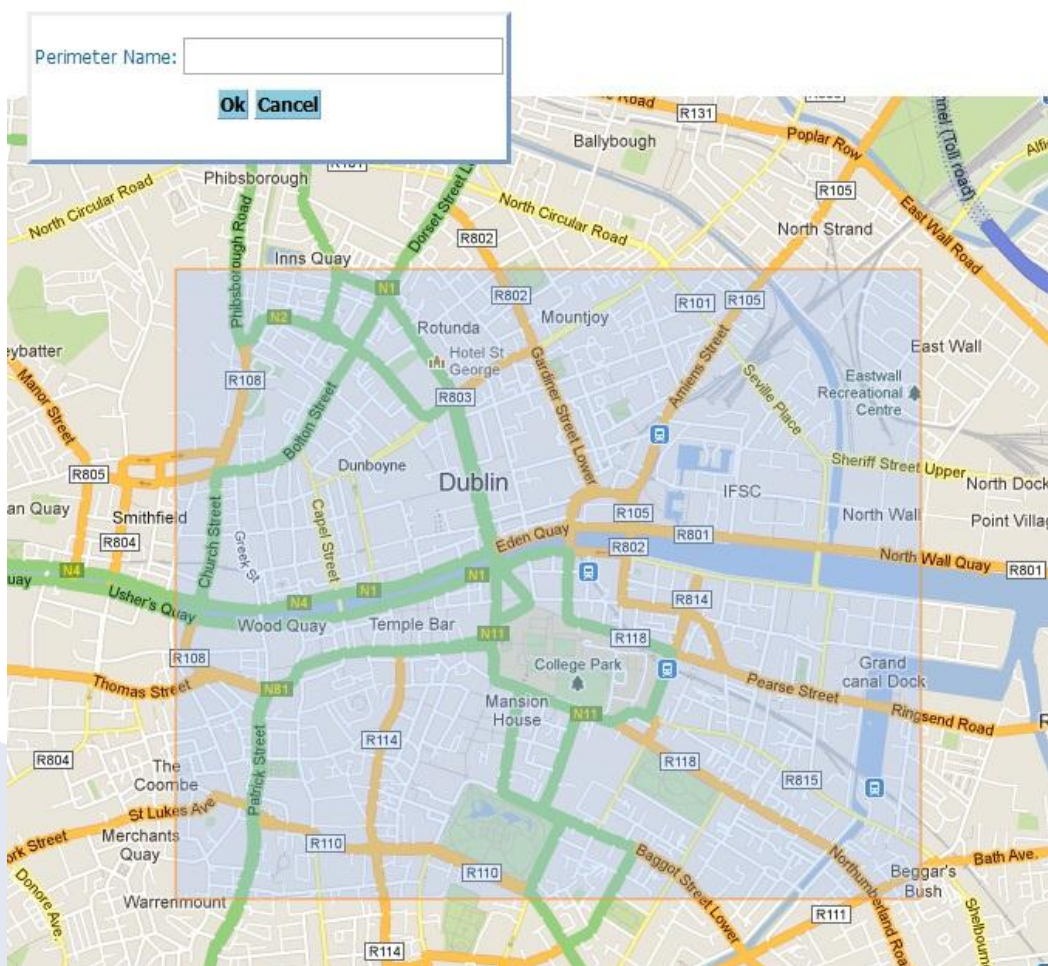
You can create new and modify the existing perimeters.



To create a new perimeter, click **New**. The Perimeters page opens. In the **Name** field, enter a name for the new perimeter.



To create a new perimeter, click **Options > Tools > Create new perimeter** at the top right corner of the map. Click once anywhere on the map to start the perimeter selection (this point would be the top left corner of the perimeter). Move the mouse and click again anywhere on the map to finish the perimeter (this point would be the bottom right corner of the perimeter).



In the **Perimeter Name** field, enter the name of the perimeter. Click **Ok**. The new perimeter is saved and appears on the map.

To view/edit the GPS parameters of the perimeter, click **Edit raw values**. The raw parameters appear.

Perimeters	
Name:	New Perimeter
Longitude:	-6.255
Latitude:	53.3464
Distance:	0
Last Updated:	03/02/2013 17:01:26
Map	
Delete	Cancel
Apply	

Modify the values as required. Click **Apply** to save the changes.

After you made all the changes on the Perimeters page, click **Apply**. The perimeter details are saved and the new perimeter appears in the list on the Resources section.

To modify a perimeter, in the **Perimeters** page click on the perimeter name link of the perimeter you want to modify. The Perimeters map page appears. Modify the perimeter as required. Click **Apply**. The modified perimeter is saved.

To delete a perimeter, in the **Perimeters** page click on the perimeter name link of the perimeter you want to delete. The Perimeters map page appears. Click **Delete**. The perimeter is deleted.

Plans

The Plans section enables you to create usage plans and to view plans that already exist.

On the left side, the Plans section features the following tabs:

Basic – allows to set up basic plans for LCU500 units. Do not use.

Advanced – allows to set up advanced plans for LCU500 units. Do not use.

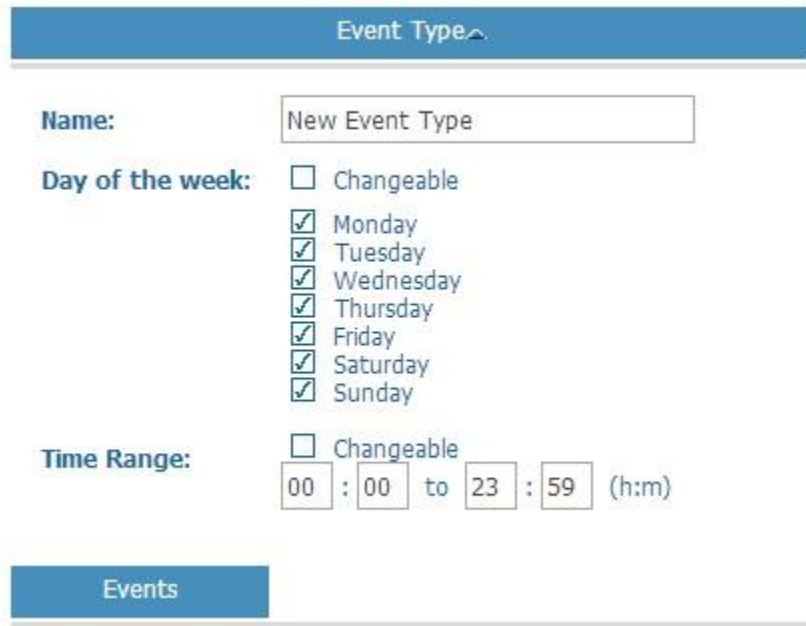
Events – allows to create events for your units.

To create a new event, you need to create an event Type first. Click **Types**. The Types page opens.

Name	Created By	Events
Analog Inputs	System	Analog
Door opening in a specific location	System	Input, Perimeter
Excess Idling	System	Input, Speed, Wait
High speed in a specific location	System	Speed, Perimeter
Input	System	Input
Location	System	Perimeter
Mileage	System	Mileage
Speed Violation	System	Speed

In this section, you can see the types of events already created in the system. You can use one of them, or create a new type.

To create a new event type, click **New**. Enter the name of the event type in the **Name** field. Leave **Day of the week** and **Time Range** as "Changeable", later you will be able to change these settings in the event itself.

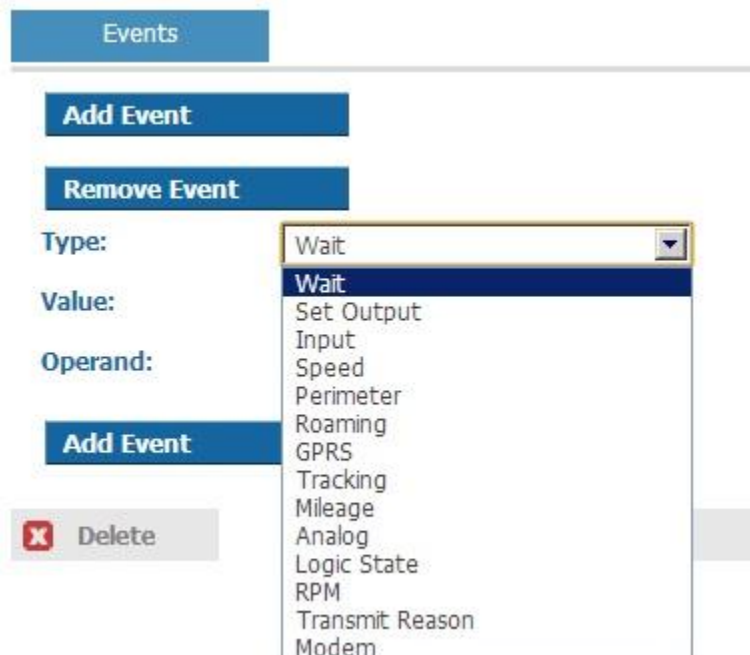


The 'Event Type' configuration form includes the following fields and options:

- Name:** A text input field containing 'New Event Type'.
- Day of the week:** A list of days with checkboxes. 'Changeable' is unchecked, while Monday through Sunday are all checked.
- Time Range:** A section with a 'Changeable' checkbox (unchecked) and a time range selector showing '00 : 00 to 23 : 59 (h:m)'.

Below the form is a blue button labeled 'Events'.

Click the **Add Event** button and select the event type you want to create from the dropdown list.



The 'Events' management interface shows the following elements:

- A blue button labeled 'Events' at the top.
- Two buttons: 'Add Event' and 'Remove Event'.
- Fields for 'Type:', 'Value:', and 'Operand:'.
- A blue button labeled 'Add Event' below the 'Operand:' field.
- A grey button with a red 'X' icon and the text 'Delete'.
- An open dropdown menu for the 'Type:' field, listing the following event types: Wait, Set Output, Input, Speed, Perimeter, Roaming, GPRS, Tracking, Mileage, Analog, Logic State, RPM, Transmit Reason, and Modem.

Most of the types listed here relate to the Helios units. The event types that can be used for Kylos Forever are: **Perimeter**, **Roaming** and **GPRS**.

Set the necessary **Value**. You can leave the **Condition** as "Changeable", later you will be able to change it in the event itself. Select the necessary operand in the **Operand** list, as follows:

And – when you create several events, this event and the following one will be performed simultaneously.

And then – when you create several events, the following event will start only after the first one is performed.

Transmit – the event will be transmitted.

End – ends an event. For example, you can create an output event, which after it performs the necessary actions will simply end.

You can create a complex event type, which consists of several events.

When finished, click **Apply**. The new event type is saved.

To create a new event, click **New** in the Events section.

Name ^	Created By	Units	Events
New Event		827905 Helios Ubx	Location

Enter the name of the event in the **Name** field. In the **Units** list, select the units you want to include in the event and click **Add**. The units will be moved to the **Available for** list.

STARCOM Systems Home Resources **Plans** Monitor Map Reports Profile Help

Event

Name: New Event

Units: [All units], [New Group], 300926, 310468 Triton, 310490 Triton, 310492 Triton, 310520 Triton

Available for:

☐ Monitor

Cellular Number: Add

E-Mail: Add

Events

Add Event

Delete Cancel Apply

Enter the cellular number and email address to receive the event notification. If you select the Monitor checkbox, the event will be displayed on the Monitor page (see below) in real time.

Click the **Add Event** button and select the type of the event you want to create from the dropdown list.

Add Event

Remove Event

Type: Mileage

Name:

Time Range: 00 : 00 to 23 : 59 (h:m)

☒ Monday
☒ Tuesday
☒ Wednesday
☒ Thursday
☒ Friday
☒ Saturday
☒ Sunday

Condition: Exact value

Mileage: 1000

Add Event

Delete Cancel Apply

Specify the time and date range and the event condition.

When finished, click **Apply**. The new event is saved.

For example, let's create an event, which will send an alert when the unit enters a specific location.

For this, we will use a Location event type already created in the system and create a new event based on this type.

Go to **Events** and click **New**.

Enter the name of the event in the **Name** field. In the **Units** list, select the units you want to include in the event and click **Add**. The units will be moved to the **Available for** list.

Enter the cellular number and email address to receive the event notification. Select the Monitor checkbox, if you want the event will to be displayed on the Monitor page in real time.

Click the **Add Event** button and select the **Location** type in the **Type** list.

Events

Add Event

Remove Event

Type: Location

Name: Entering Perimeter

Time Range: 00 : 00 to 23 : 59 (h:m)

☒ Monday
☒ Tuesday
☒ Wednesday
☒ Thursday
☒ Friday
☒ Saturday
☒ Sunday

Perimeter: New Perimeter

Condition: Entering

Add Event

Delete Cancel Apply

Enter the name of the event in the **Name** field. Select the necessary time and date range.

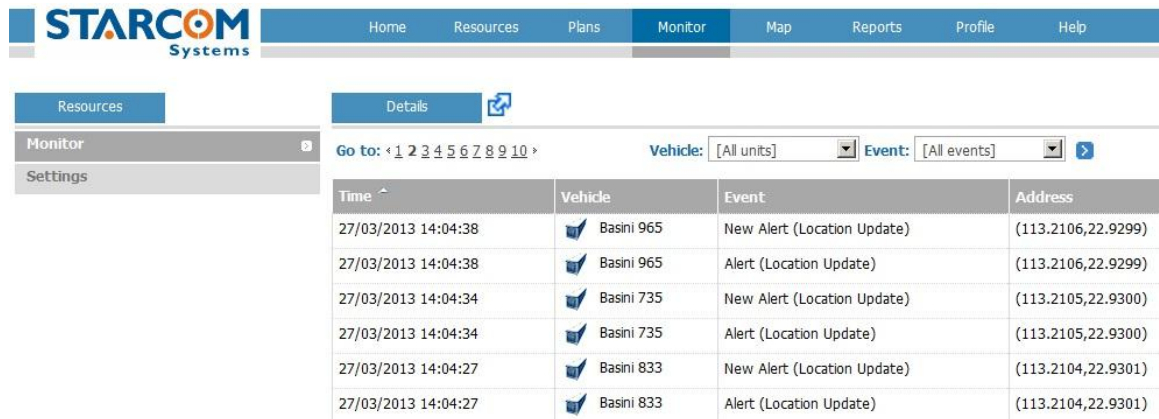
Select the necessary perimeter in the **Perimeter** list.

Select **Entering** in the **Condition** list.

Click **Apply**. The new event, which will send an alert when the unit enters a specific location, is created.

Monitor

The Monitor section allows you to select a set of events for a specific unit type and to see them displayed in real time.



Time	Vehicle	Event	Address
27/03/2013 14:04:38	Basini 965	New Alert (Location Update)	(113.2106,22.9299)
27/03/2013 14:04:38	Basini 965	Alert (Location Update)	(113.2106,22.9299)
27/03/2013 14:04:34	Basini 735	New Alert (Location Update)	(113.2105,22.9300)
27/03/2013 14:04:34	Basini 735	Alert (Location Update)	(113.2105,22.9300)
27/03/2013 14:04:27	Basini 833	New Alert (Location Update)	(113.2104,22.9301)
27/03/2013 14:04:27	Basini 833	Alert (Location Update)	(113.2104,22.9301)

On the left side, the Monitor section features the following tabs:

Monitor – displays the events in real time.

Settings – allows creating new and modifying existing monitoring events.

To create a new event, go to the **Settings** tab and click **New**. The Details page opens. In the **Name** field, enter a name for the new event.



STARCOM Systems Home Resources Plans **Monitor** Map Reports Profile Help

Details

Name New Alert

Unit Type Triton

Units

- [All units]
- 310490 Triton
- 310492 Triton
- 310520 Triton

Available reasons

- Event
- Deinstalled
- Installed
- Main Power Low
- Door Opened
- Door Closed
- Strong Impact
- Button Off
- Button On

Day of the week:

- ☒ Monday
- ☒ Tuesday
- ☒ Wednesday
- ☒ Thursday
- ☒ Friday
- ☒ Saturday
- ☒ Sunday

Time Range: 0 : 0 to 23 : 59 (h:m)

Available for

Notify for

Notify for

Cellular Number **E-Mail**

Add **Add**

Delete **Cancel** **Apply**

Select **Triton** in the **Unit Type** list.

In the **Units** list, select the units you want to include in the event and click **Add**. The units will be moved to the **Available for** list.

In the **Available reasons** list, select the reasons you wish to receive an alert for and click **Add**. The reasons will be moved to the **Notify for** list.

- Main Power Low – alerts you of the battery getting low.
- Door Opened/Door Closed – not applicable.
- Weak Impact/Strong Impact – events which show two types of impact on the unit (relevant for rechargeable units).

- Button Off/Button On – alert that appears when the Operation button of the unit is pressed. This can serve as a simple test to indicate whether the unit is working.
- Location Update – event which will update you on the unit location status.
- Power On – alert that is sent when the unit turns on.
- Light On/Light Off – not applicable
- Temperature High/Temperature Low – not applicable.
- No Activity – this event can be used to receive alerts when devices have stopped transmitting. The default value is 336 hours (2 weeks).

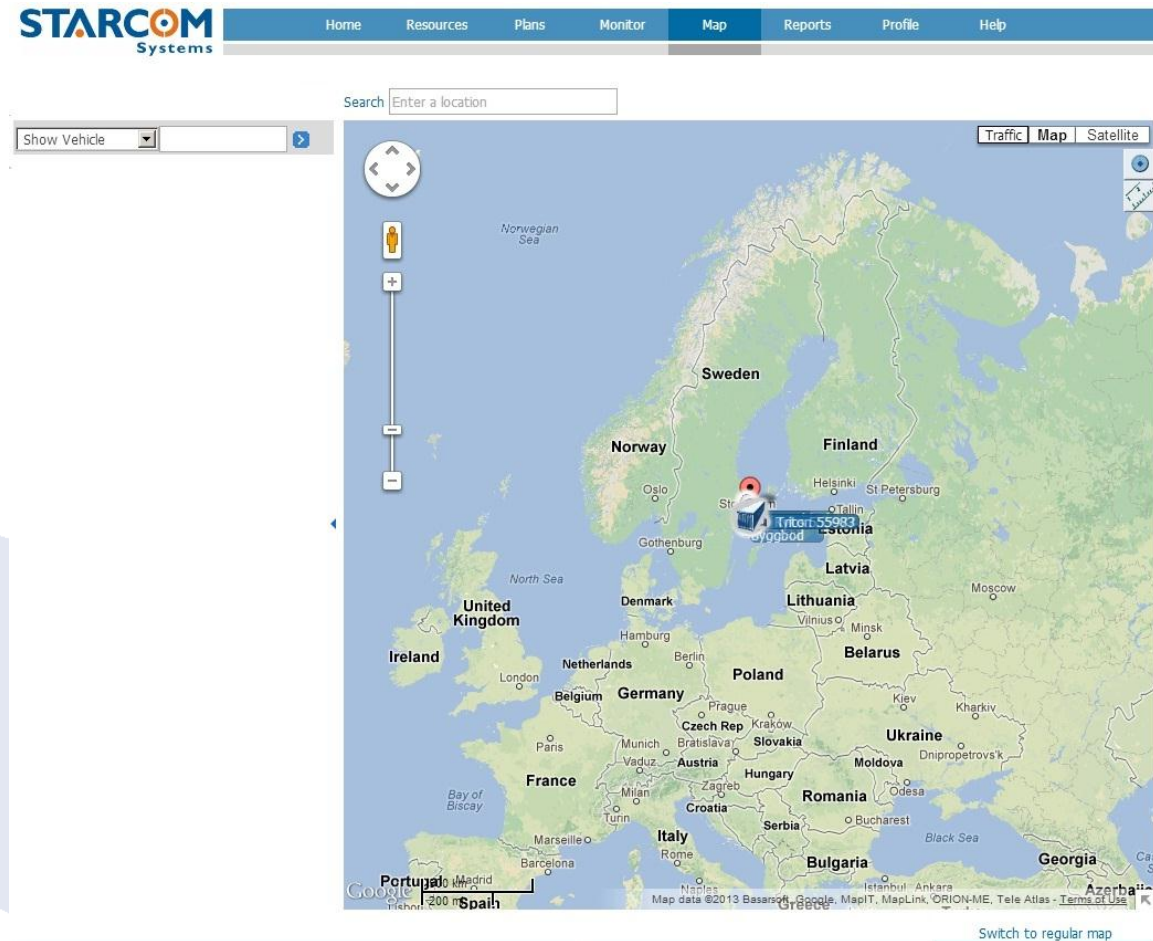
Enter the cellular number and email for the notification to be sent to in the **Notify for** section.

Press **Apply**. The new monitoring event is saved.

Once the events are generated by the units, they will appear on the Monitor page. You will also receive a notification by SMS. The email notifications are accumulated and sent once every half an hour to avoid spamming.

Map

The Map page displays the location of a single unit, or a group of units. It also shows the unit information and commands.



You can select a unit, or a group of units in the dropdown list on the left.

In the Search field, you can enter the unit number to be displayed.

Once you select the unit, its location will be displayed on the map and its information will appear on the left.

Show Vehicle Triton

Code: Triton

Received: 28/03/2013 11:36:57

Reason: Tracking

State: N/A

Version: 2012.05.09

Location

Valid: 10/09/2012 15:32:44

Speed: 0 kph

Mileage: 0 km

Location: (18.2465,59.2494)

Heading: N (0)

Altitude: 0 m

IO

Installed: No

Door: Opened

Button: Off

Battery: 3.85v

Temperature: -127c

Light: 4095

Commands

Request Status

Search

[Traffic](#) [Map](#) [Satellite](#)

[Switch to regular map](#)

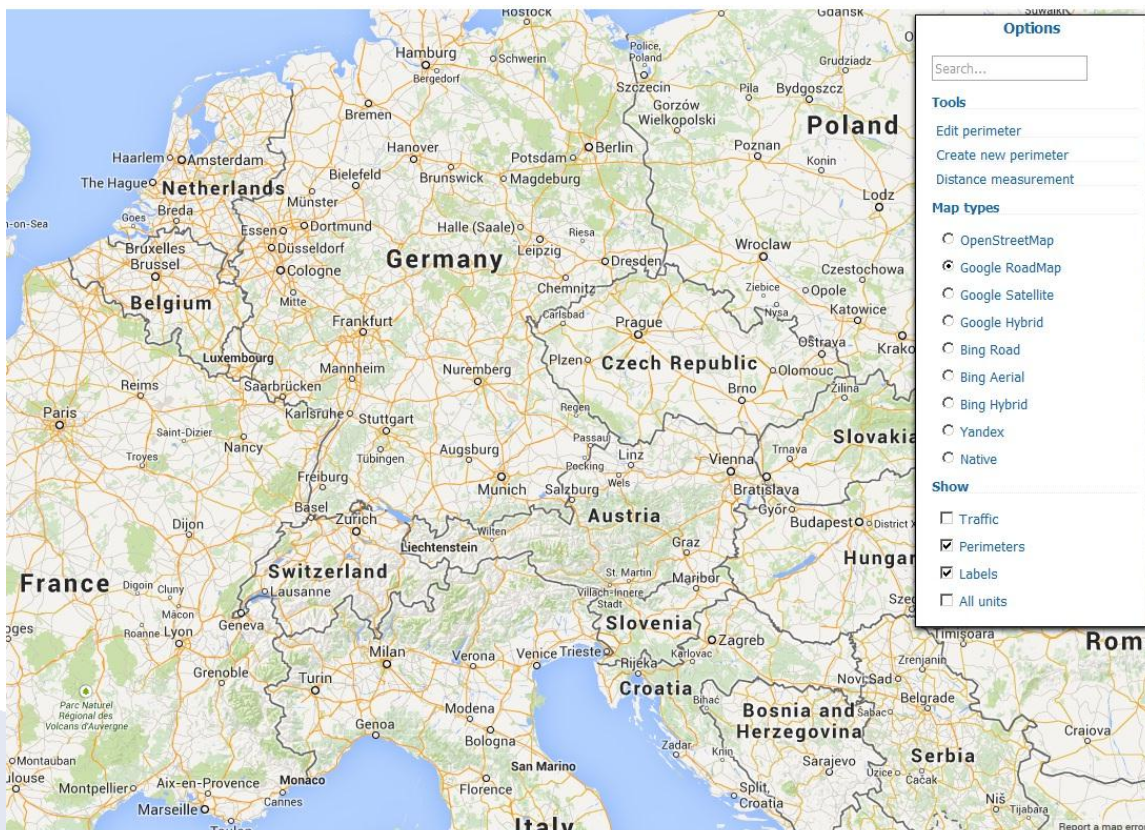
The following unit information is displayed:

- **Code** – the unit name
- **Location** – the address of the last GPS position of the unit
- **Received** – the date and time of last transmission from the unit
- **Reason** – the reason for the transmission
- **State** – the unit logic state (for Helios units)
- **Version** – the unit firmware version

- **Location** – the GPS location of the unit, including:
 - **Valid** – the date and time of the last location transmission from the unit
 - **Speed** – the last recorded speed of the unit
 - **Mileage** – the last recorded mileage of the unit
 - **Location** – the GPS coordinates of the last position of the unit
 - **Heading** – the unit moving direction
 - **Altitude** – the last altitude of the unit

- **IO** – unit input information

- **Commands**
 - **Request Status** – requests the current status of the unit
 - **Tracking** – overrides the unit transmission rate settings and forces the unit to transmit according to the specified interval.
 - **Stop Tracking** – stops the tracking command and returns the unit to its regular transmission rate
 - **Set Mileage** – sets the specified mileage value in the unit



On the right there are Map Options. Clicking on the Options menu will reveal the following options.

- **Search**

As you type the name of a search criterion in the search field, a list of matching names, from which you can select the required name, appears.

- **Tools**

- **Edit perimeter** – allows you to edit an existing perimeter.
- **Create new perimeter** – allows to create a new perimeter.
- **Distance measurement** – allows to measure the distance between two points on the map.

- **Map types**

You can select the following map types: OpenStreetMap, Google RoadMap, Google Satellite, Google Hybrid, Bing Road, Bing Aerial, Bing Hybrid, Yandex, Native.

- **Show**

- **Traffic** – shows the current traffic conditions (where applicable).
- **Perimeters** – displays your perimeters on the map.
- **Labels** – displays the unit name next to the unit icon on the map.
- **All units** – displays all your units on the map at once.

Reports

The Reports section allows you to generate different unit reports and to schedule automatically generated reports.

On the left side, the Reports section features the following tabs:

Instant – allows to generate reports on demand for a single unit or a group of units for a specific time period (date and time range).

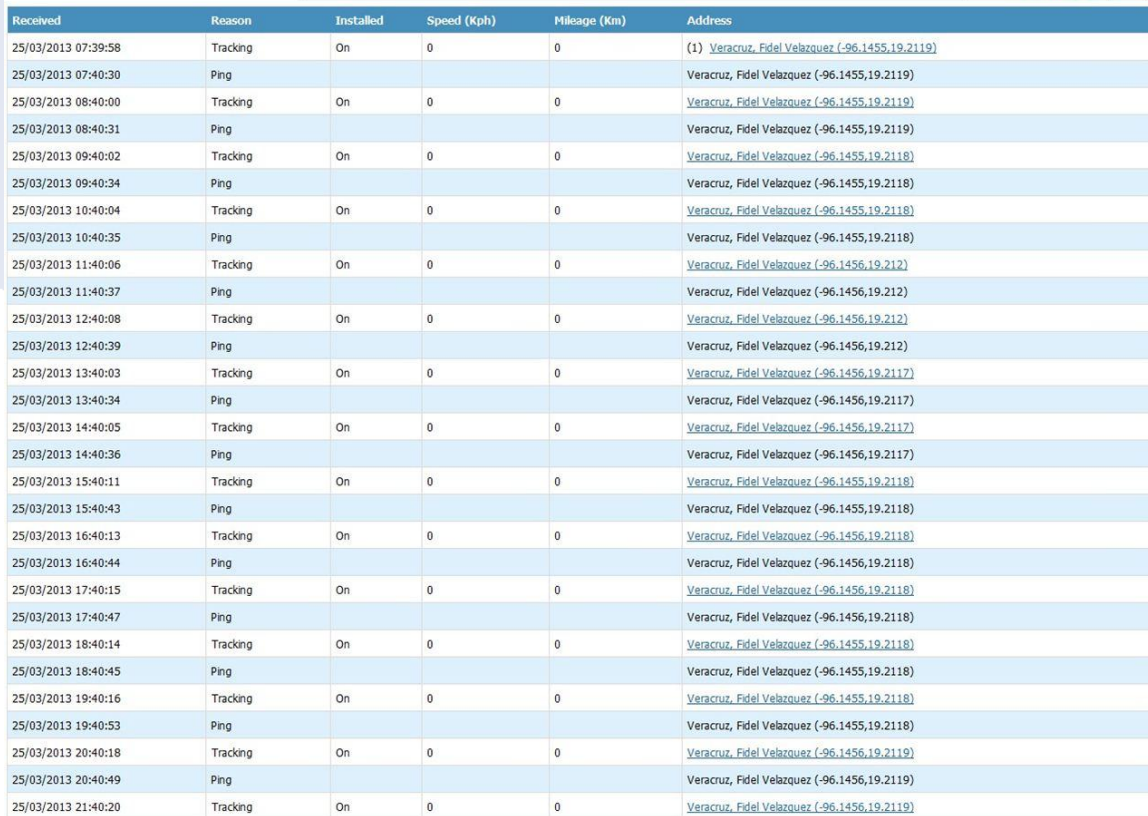
Schedule – allows to define scheduled reports that generate automatically on a daily, monthly or weekly basis.

NOTE: The reports can be generated for the last 30 days only.

You can generate the following types of reports: **Work Hours, Work Hours Summary, Work Hours Group Summary, History, History – Technical, Violations, Live Status, Events, Perimeter Entry, Transmit Reasons, Monitored events, Stops.**


To generate a report, select the report type in the **Report** dropdown list. Select the unit or group of units in the **Unit** dropdown list. Specify the dates and times in the **Date Range**. Click **Generate**.

The following is an example of a report generated for one unit on one day and for a specific time period.



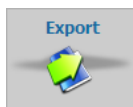
The report includes a map area and tracking details area. The map area shows a map of the area in which the unit is located showing points of movement of the unit. The tracking details area lists the tracking data of the unit.

The pointers on the map correspond with the numbers in the address column of the detailed list of transmissions received from the unit. These numbers indicate the points of movement of the unit. The total number of map pointers available per report is 50.

On the bottom of the Map section there is a Play button  that enables you to play back the movement of the unit on the map.



To save the report, click **Save** . The report is saved as an *.html or a *.pdf file.



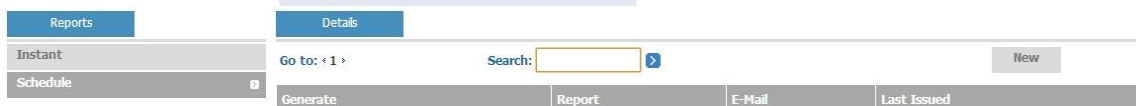
To export a report, click **Export** . The report is exported as a *.csv file, which can be viewed in Excel, to your default downloads folder.



To print a report, click **Print** . The report appears in your default browser window where you can select the printer to print out the report.

Scheduled reports

To create a scheduled report, in the **Reports** section, click **Schedule**. The Schedule page appears.



Click **New**. The Report Scheduling page opens.

Report

Report:

Work Hours

☐ CSV only

Vehicle:

Batgerel 54-17UBP

Repeat:

Daily

Generate At:

20:00

Send to:

Next scheduled:

N/A N/A

Delete

Cancel

Apply

From the **Report** dropdown list, select the type of report you want to create.

Tick the **CSV only** checkbox, if you do not want a map provided with the report.




From the **Unit** dropdown list, select the unit or group of units for the report.

From the **Repeat** dropdown list, select if you want the report repeated **Daily**, **Weekly** or **Monthly**.

From the **Generate At** dropdown list, select the time at which you want to generate the report.

The **Send to** field is populated with the default email address for the unit. You can change this address or add additional email addresses, separated by a semicolon.

Click **Apply**. The report schedule is saved and added to the list of scheduled reports.

Reports	Details		
Instant	Go to: < 1 > Search: <input type="text"/> 		<div>New</div>
Schedule 			
Generate 	Report	E-Mail	Last Issued
Daily at 20:00	Work Hours: 827905 Helios Ubx	test@test.com ; test2@test.com	N/A N/A

To modify a scheduled report, in **Reports**, click **Schedule**. In the **Details** section, under the Generate column, click the link of the report schedule you want to modify. The Report Scheduling page appears. Modify the report schedule as required. Click **Apply**. The modified schedule details are saved.

To delete a scheduled report, in **Reports**, click **Schedule**. In the **Details** section, under the Generate column, click the link of the report schedule you want to delete. The Report Scheduling page appears. Click **Delete**. The scheduled report is deleted.

Profile

The Profile section shows your profile details that were created when you purchased your units. You can view and modify these details as required.

STARCOM Systems

Home Resources Plans Monitor Map Reports **Profile** Help

Profile

Username: demo

Password:

Full Name:

Company:

Address:

City:

ZIP Code:

Country:

Phone:

E-Mail: test@test.com

Language: English

Time Zone: GMT +5

Date Format: 15/09/2009

Time Format: 15:09:00

Distance Units: miles

Speed Units: mph

Default map type: Flash Maps

Map Tooltip Format: [VEHICLE] ([SPEED])

☐ Show all my units on the map

☐ Show coordinates in reports

To view or modify your profile, click the **Profile** tab, and modify the information as required.

Click **Apply**. The changes are saved.

Using Map Tooltip Format

The Map Tooltip Format field lets you configure the information that will appear in the info window on the Map page when you select a unit.

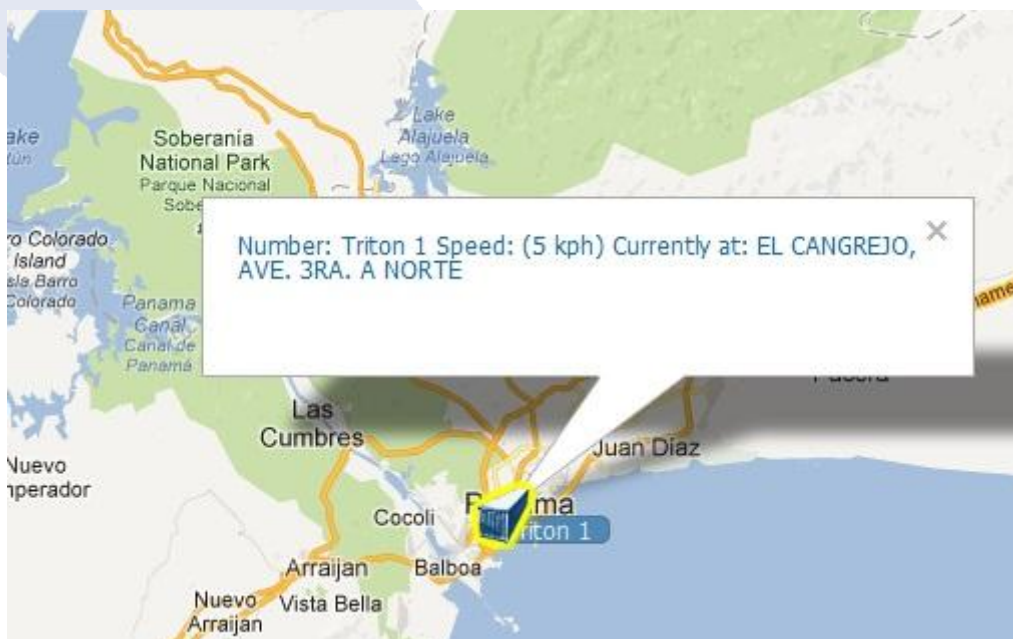
To see all the parameters that can be configured in the Map Tooltip Format field, click on the green question mark located to the right of the field. The Map Tooltip Format legend window will appear.

Phone:	<input type="text"/>
E-Mail:	<input type="text"/>
Language:	English <input type="button" value="v"/>
Time Zone:	GMT +2
Date Format:	15/09/2009 <input type="button" value="v"/>
Time Format:	15:09:00 <input type="button" value="v"/>
Distance Units:	km <input type="button" value="v"/>
Speed Units:	kph <input type="button" value="v"/>
Default map type:	Google Maps <input type="button" value="v"/>
Map Tooltip Format:	[VEHICLE] ([SPEED]) [LOCATION] [STATE] <input type="button" value="v"/>

Map Tooltip Format

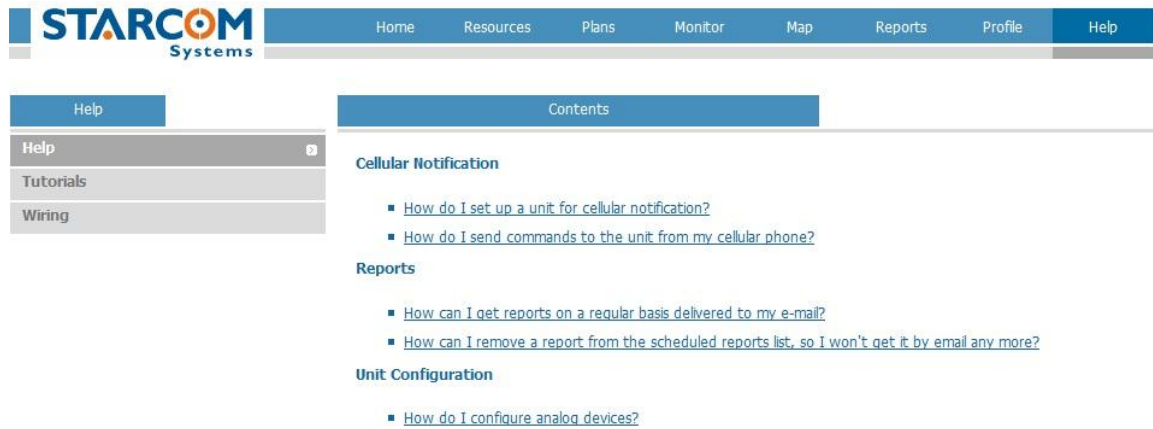
VEHICLE	Vehicle
REASON	Reason
LOCATION	Location
SPEED	Speed
STATE	Idle
TIME_RECEIVED	Time Received
TIME_VALID	Time Valid
ALTITUDE	Altitude
MILEAGE	Current mileage
HEADING	Heading
DOOR	Door Closed/Opened
KEY	Key Off/On
EMERGENCY	Emergency Off/On
HOOD	Hood Closed/Opened
MOTION	Motion Off/On
SIREN	Siren Off/On
OIL	Oil Pressure Off/On
WATER	Water Temp Off/On
SHOCK	Shock Off/On
ANALOG1	Analog 1
ANALOG2	Analog 2
VOLTAGE	Main power

Once you made all the necessary changes, click **Apply**. Then go to the Map page and check the unit info window.



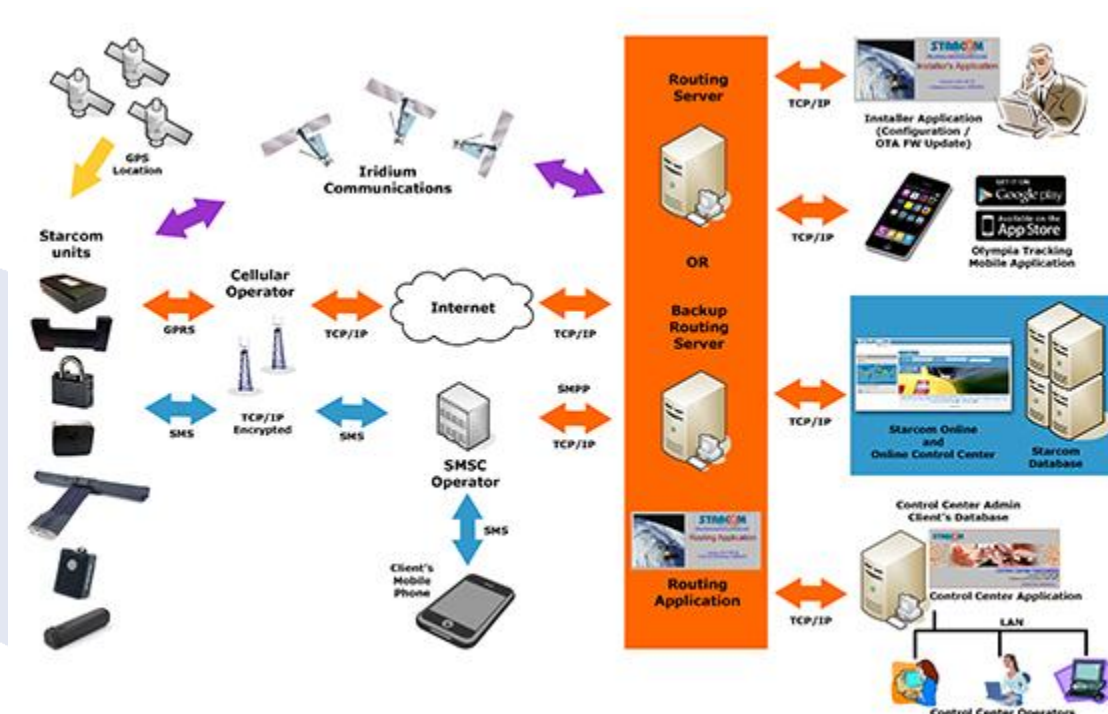
Help

The Help section contains answers to some frequently asked questions and Starcom Online tutorials.



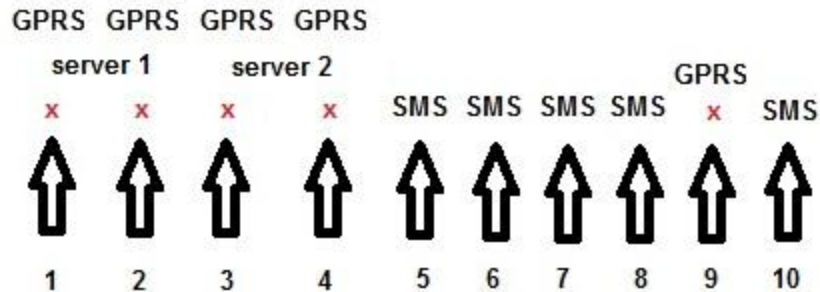
Click on the appropriate tab to access the necessary information.

Kylos Forever is the mobile component of Starcom's advanced tracking and monitoring system. The system uses advanced software algorithms for field tracking of units and provides customers with a selection of real-time information about the tracked device. The following image illustrates the Starcom Systems communication channels.



When the unit's modem is turned on, it tries to connect to the network and transmit via GPRS (4 attempts: 2 on the first server and 2 on the second server). If it fails to connect to the network, it will switch to the SMS channel (if it is configured to transmit via SMS) after about 4 minutes, because it makes four attempts to connect via GPRS. It will constantly try to transmit via SMS.

The next attempt to transmit via GPRS will be repeated in 5 minutes. Every 5 minutes, the unit will attempt to connect to the network and transmit via GPRS. This process is illustrated in the following figure.



The unit saves all the information that could not be sent in its memory. Once it is able to connect to the network again, it will transmit all the stored data.

The device sends encrypted data to the routing server. When the routing receives it, it is decoded and encoded at the same time and sent to all the recipients configured in the system.

The message size is 140 bytes (70 bytes data and 70 bytes header).

For more information, see *Routing, Control Center* and *SMS Notifications* guides.

Appendix B – Contacts

For more information about Starcom Systems Company and products, please visit: <http://www.starcomsystems.com>.

Support

Comprehensive support information is available online at: <http://wiki.starcomsystems.com/wiki/index.php/Support>.

Should you have any questions regarding our system, please contact Starcom technical support. For personalized support, use **Email:** support@starcomsystems.com, or **Skype:** **starcom.support**.