

# WATCHLOCK CUBE

## User Guide

Version 1.1



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## **1. Introduction**

WatchLock Cube is a versatile, user-friendly, smart reporting padlock that keeps you updated in real time. WatchLock Cube is the latest version of the award-winning WatchLock padlock, which combines advanced GPS and GSM technology with a versatile locking system.

It provides notifications in real time upon any predefined irregular event, acting both as a security measure and a monitoring solution. WatchLock Cube protects your assets and communicates with you no matter where you or your assets are.

WatchLock Cube is equipped with high-end electronic components; its battery capacity is increased fourfold compared to that of WatchLock. The Cube's electronic shell can fit a variety of C10 padlocks from various manufacturers.





## 2. Package Contents



- 1. WatchLock Cube with protective rubber cover
- 2. Keys
- 3. WatchLock Cube programming cable (optional)



## **3. Product Description**

WatchLock Cube is a combination of an electronic tracking device with GPS locating system, cellular-based communication capabilities, and a padlock.

Together they provide immediate triggered alerts and location information through email, a web-based monitoring system, or a smartphone app.

This manual describes how to configure and monitor the WatchLock Cube device.

#### Audible signals

The device uses audible signals (beeps) to announce its activity. When you insert the programming cable or the batteries in the device, it will sound one (1) audible signal (beep), to indicate that it was activated.

After this, the device will connect to the cellular network. Once the device performs a successful connection to the cellular network, it will sound two (2) audible signals (beeps).

At the same time, the device will connect to the GPS and get the location. Once the device performs a successful connection to GPS, it will sound three (3) audible signals (beeps).

The device will sound four (4) audible signals (beeps) when its batteries are getting empty.

When the shackle is connected to the tracking device and the lock is being locked / unlocked, the device will sound one (1) short audible signal (beep).



#### **Technical specifications**

Location	Туре	GPS, GLONASS (optional)
	Time to First Fix (TTFF)	12 sec. (hot start)
	Positioning Accuracy	10 m CEP (50%)
	Velocity	0.2 m/s (50%)
	Antenna Type	Built in (concealed)
Environmental	Operating Temperature	-20°C to +60°C
Specifications	Storage Temperature	-40°C to +85°C
CPU	Static RAM	128 KB
	Non-volatile Memory	34 KB
	Flash Memory	2048 КВ
Battery	Туре	4 AA batteries (rechargeable /
		non-rechargeable)
	Power	Varies by type of AA batteries
		used. It is the capacity of a single
		AA battery used multiplied by 0.8
GSM	Туре	GSM: 850/900/1800/1900
GSM Communication	Туре	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA
GSM Communication	Type Networks	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt)
GSM Communication	Type Networks	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt)
GSM Communication Physical	Type Networks Dimensions	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2
GSM Communication Physical Specifications	Type Networks Dimensions	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle)
GSM Communication Physical Specifications	Type Networks Dimensions Weight	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included)
GSM Communication Physical Specifications Accelerometer	Type Networks Dimensions Weight Type	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution
GSM Communication Physical Specifications Accelerometer	Type Networks Dimensions Weight Type Purpose	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution Identify and report events of
GSM Communication Physical Specifications Accelerometer	Type Networks Dimensions Weight Type Purpose	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution Identify and report events of impact
GSM Communication Physical Specifications Accelerometer Access Port	Type Networks Dimensions Weight Type Purpose Type	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution Identify and report events of impact USB
GSM Communication Physical Specifications Accelerometer Access Port Power	Type Networks Dimensions Weight Type Purpose Type Sleep/Idle	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution Identify and report events of impact USB 0.5
GSM Communication Physical Specifications Accelerometer Access Port Power Consumption	Type Networks Dimensions Weight Type Purpose Type Sleep/Idle GPS only	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution Identify and report events of impact USB 0.5 105
GSM Communication Physical Specifications Accelerometer Access Port Power Consumption (mA)	Type Networks Dimensions Weight Type Purpose Type Sleep/Idle GPS only GPRS only	GSM: 850/900/1800/1900 SMS, GPRS, HSDPA 850/900 class 4 (2 Watt) 1800/1900 class 1 (1 Watt) 7.5 x 7.5 x 8 cm (17 cm with C2 shackle) 910 g (padlock included) 3 Axis, 0.1g resolution Identify and report events of impact USB 0.5 105 80



## 4. Configuration

#### Downloading the software

For the link to download the Installer application setup file, please contact Starcom technical support by **Email**: <u>support@starcomsystems.com</u>, or **Skype**: **starcom.support**.

#### Installing the software

Locate the folder where you saved the installer setup file. Double-click the **InstallSetup.exe**. A Windows Defender window appears. Click **More info**.

Windows protected your PC	×	
Windows Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk. <u>More info</u>		
Don't run		



## Windows protected your PC

Windows Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.

App: InstallSetup.exe Publisher: Unknown publisher

**Run anyway** 

Don't run

Click **Run anyway**. The Select Destination Location window appears.

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😽 Setup - Starcom Installer Application	_			$\times$
Select Destination Location Where should Starcom Installer Application be installed?			۲ ۵	
Setup will install Starcom Installer Application into the follo	owing f	folder.		
To continue, click Next. If you would like to select a different folde	er, click	Browse	2.	
C:\Program Files (x86)\StarcomSystems\InstallerApplication		Brows	se	
At least 1.2 MB of free disk space is required.				
Ne	ext >		Cance	el

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

😽 Setup - Starcom Installer Application	ı			_		×
Select Components						
Which assesses about the installe	ch.					
which components should be installed	d?				(	
Select the components you want to ir install. Click Next when you are read	nstall; clear y to continu	the compor e.	nents you	do not	want to	
Full Installation					~	
Installer Application					4.5 MB	
MapX Support					12.0 MB	
Current selection requires at least 17	7.6 MB of dis	k space.				
		< Back	Next :	>	Can	cel



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

🔀 Setup - Starcom Installer Application	—		×
Select Start Menu Folder Where should Setup place the program's shortcuts?			
Setup will create the program's shortcuts in the following St	tart Me	nu folder.	
To continue, click Next. If you would like to select a different folder,	click Br	owse.	
Starcom Systems	E	Browse	
Don't create a Start Menu folder			
< Back Nex	t>	Ca	ncel

*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.



😼 Setup - Starcom Installer Application —		×
Ready to Install Setup is now ready to begin installing Starcom Installer Application on your computer.		Ð
Click Install to continue with the installation, or click Back if you want to review change any settings.	or	
Destination location: C:\Program Files (x86)\StarcomSystems\InstallerApplication		^
Setup type: Full Installation		
Selected components: Installer Application MapX Support		
Start Menu folder: Starcom Systems		
<	>	
< Back Install	Ca	ancel

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

🔂 Setup - Starcom Installer Application —	×
Installing Please wait while Setup installs Starcom Installer Application on your computer.	
Extracting files C:\Program Files (x86)\MapX\LEGEND.DLL	
	Cancel



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 Starcom Installer Update window appears.

🚼 Starcom Installer	Update — 🗆	×
	Hello! This will update the Starcom software that you own. In order to complete the upgrade, please enter the drive where you installed your software to (eg: C:\ or D:\). Enjoy!	
	Destination folder rogram Files (x86)\StarcomSystems\InstallerApplication Extraction progress	
	Extract Cancel	

Verify that the Destination folder points to the location where the Starcom Installer software is installed and click **Extract**.



A Confirm file replace dialog box appears. Click **Yes to All**.

🚡 Starcom Installer Update	>	×
Extracting folder Extracting	files to "C:\Program Files (x86)\StarcomSystems\InstallerApplication" from IUpdate.exe	•
	Confirm file replace × The following file already exists eInstall.exe Would you like to replace the existing file	
Extracting e	1,651,712 bytes modified on 13-May-18 10:34 AM with this one? 1,651,712 bytes modified on 13-May-18 10:34 AM	
	Yes         Yes to All         Rename           No         No to All         Cancel	]

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



🚡 Starcom Instal	ler Update — 🗆 🗙
	Extracting files to "C:\Program Files (x86)\StarcomSystems\InstallerApplication" folder Extracting from IUpdate.exe
	Extracting Enforcer.ini
	Extraction progress
	Pause Cancel

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

#### Installing the cable driver

The WatchLock Cube cable driver can be downloaded from the following location:

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.



#### **Disassembling the device**

Use the key to open the lock and remove the shackle.





Remove the rubber cover from the device.





#### Pull the plastic cover to remove it from the device.







Use a cross-head screwdriver to remove the two screws in the top cover.







#### Remove the top cover.



Carefully pull and slide out the battery holder.







## ATTENTION!

Be careful when taking out the battery holder. Do not tear the wires.





Use the cross-head screwdriver to remove the two screws underneath the battery holder.







Pull the top part to disassemble the device and reveal the lower part with the SIM card holder.







#### **Inserting the SIM card**

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





Insert the SIM card into the SIM card slot with its gold contacts facing you and its cut-off corner facing out the SIM card slot, as shown in the following image.





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





#### **Connecting the device to the computer**

Connect the programming cable connector to the USB port on your computer.

Connect the 5-pin connector to the device.

Make sure that the slot on the device connector socket corresponds with the bulge on the cable connector plug.

The three (3) pins on the cable connector plug must point upwards and the two (2) pins downwards.









#### **Configuring the device**

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

Installer	×
Please set company name	
	OK Cancel

Enter your company name and click **OK**. The Wizard window appears. Unclick the Always show this wizard on program startup option and press Cancel.

🛃 Wizard	–
	Welcome to Starcom System
STARCOM	Welcome!
Systems	This wizard will guide you through the preliminary setup and configuration of Starcom's device.
	The setup consists of 2 easy steps:
	1. Entering information regarding your computer and the cellular network you will be using.
	2. Setting up and testing the units.
Always show this wizard on program sta	artup <u>Soc</u> ancel → Next
	31



#### The Installer window appears.

Starcom - Installer (v2018.05.13)		×
Technical Preferences Windows Help		
🥸 Wizard 🔠 Unit Status 🞯 Helos Parameters 🚊 Ermware Update 🕌 Communications 😭 Configuration 👹 Map setup	 	
Ward Lut Status Personers if provere Update Communications Configuration Report		

Click **Technical > Communications** or press the **Communications** button

Communications

on the taskbar at the top of the window.

Communications	- • ×
👍 Advanced	Unit Filter:



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

Communication Window	
Configuration Messages	
Networks	
Available Networks:	
<u> ↓ Add</u> <u> ↓ Remove</u>	
🗎 🤣 🥖 Save Reload Restart	

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

🛃 Network Selec	tion	I		_		×	
Supported net	Supported networks:						
Helios LCU500 Route TCPIP MotG18 SMPP MotC18 GSM TC35 TDMA	~ [	Direct c	onne	ction	to Heli	os units	
🗸 ОК							

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 device connection to the Installer applies globally to all device types).

Communication Window				
Configuration Messages				
Networks Helios.1				
Available Networks:	Network alias:	Addresses Prefixes:	Units List:	
Helios.1 (Helios)	Helios.1 RX color: Click here to change! TX color: Click here to change! TX Timeout:	^	^	
	60 🔮 Seconds	~	~	
	Modify source prefix:	🔁 <u>U</u> pdate	(Use one unit or one units range per line)	
<u>, <b>⊅</b>iA</u> dd <u><b>±</b>i</u> <u>R</u> emove	💋 Manual TX			
📄 🤣 🏓 Save Reload Restart				

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

Communication Window	- • ×
Configuration Messages	
Networks Helios.1	
Activate	
COM-1 V 115200 V Com Port Baud Rate	
Auto Check	
JCP Test	
🗎 🤣 💋 Save Reload Restart	



Select the COM port number of the WatchLock Cube cable port in the **Com Port** menu.

To verify the COM port being used by WatchLock Cube in your computer, go to **My Computer > Manage > Device Manager > Ports**.

🗂 Device Manager	_	×
File Action View Help		
🗇 🏟   📰   😰 🖬   晃		
> 📷 IDE ATA/ATAPI controllers		^
> 🚡 Imaging devices		
> 🔤 Keyboards		
> II Mice and other pointing device	25	
> 🛄 Monitors		
Network adapters		
🗸 🛱 Ports (COM & LPT)		- 10
USB Serial Port (COM18)		
> Les Print queues		
> 📇 Printers		
> Processors		
> IP Security devices		
> 🏣 SM Driver		
> Software devices		
> 🐗 Sound, video and game contro	llers	
> 🍇 Storage controllers		
> 🏣 System devices		
> Ü Universal Serial Bus controllers		
> 📇 WSD Print Provider		~



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

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

screen Helios. 1: on


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

Customize	
🛃 Customize	×
Actions	
Categories:	Actions:
Prefrences Technical	Helios Parameters     A
(All Actions)	Watchlock Parameters
	Events
	📚 Wizard
	Helios Canbus
Description	
To add actions to your a Categories or Actions or	application simply drag and drop from either not on existing ActionBar.
Drag to create Separate	Close

Press on **Watchlock Parameters** and use the settings to configure the device.





🔁 Read from unit

to read the parameters

already configured in the device.

Press the **Read from device** button

Watchlock Parameters	
Load 📴 Save	
Image: Wag Select All         C Read from unit         Send         Single unit         Multiple units	
Unit Number: Address: 479526	
🐒 Network 🥝 Transmission Rates 🌼 Hardware	
SMS Destination	
internet     Image: blank       Cellular APN     Cellular Username       Cellular Password	
routing1.starcomsystems : 6600 First server Port	
routing2.starcomsystems : 6600 Secondary Server Port	



### **Network settings**

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

Watchlock Parameters	
👍 Load 🛛 😫 Save	
Ma Select All Single unit Single unit Multiple units	
Unit Number: Address:	
🛣 Network 🥨 Transmission Rates 🌼 Hardware	
SMS Destination	
Cellular APN Cellular Username Cellular Password	
□ routing1.starcomsystems : □ 6600	
routing2.starcomsystems : 6600 🕞 Secondary Server Port	

## **SMS** Destination

The device 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 device 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 device to transmit messages and alerts. The APN settings are provided by your cellular operator with the SIM card you are using in the device.

**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 devices transmit to (by default, it is Starcom Systems server 1).

**Secondary server** – auxiliary routing server, which the devices 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 device will transmit its status.

Watchlock Parameters	
Load Bave	
M₂ Select <u>All</u>	
Unit Number: Address:	
460482	
🐒 Network 🥝 Transmission Rates 🎄 Hardware	
Intervals	
Transmision 🗹 60 min 🗸 🗌 Only when weak impact detected	
Standby 🔽 None 🗸	
GPS Peek 🔽 60 min 🗸 🗌 Only when weak impact detected	
Logging 🖂 None 🗸	
No movement 🖂 None 🗸	
Sand measures from the memory by	
Benular cellular data will always be used)	

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

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

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 device 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 device location. For more information, see *Chapter 7 – Monitoring*.



GPS Peek can be *slower* than Transmission when the device 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.

For the testing period, you can set the transmission rates at a higher interval (e.g., 10 minutes). Once the device is tested, you can set the transmission rate at a proper working interval (e.g., 5 hours).

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

Note that these are the regular scheduled Tracking transmissions and they do not include the additional random transmissions and alerts, like Open/Close, Location Update, etc., which also use the battery.

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

**Only when weak impact detected** – when enabled, tracking messages will only be sent if during the selected period a weak impact was detected.

*NOTE*: This will disable the weak impact transmissions.

**Standby** – if "Only weak impact is detected" is enabled use this setting to set the tracking rate when the device is stationary. This interval must be slower than the Transmission rate (e.g., use 1 day as Standby and 15 minutes for Transmission).

**No movement** – time without movement before a "No movement" alarm is sent. Recommended to be used together with the "Only when weak impact detected" setting above.

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

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

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



### Hardware settings

Watchlock Parameters	- • •
🕒 Load 📴 Save	
Ma Select All Single unit Single unit Multiple units	
Unit Number: Address:	
479526	
🕌 Network 🥝 Transmission Rates 🌼 Hardware	
Watchlock Cube	
Monitor "Break-in" events Inductive lock Inductive unlock	
□ Location updates 21 · 24 · ·	
✓ Location by Cellular	
Filter inputs	
$1.1  \checkmark  7.5  \checkmark  2.3  \checkmark  2.5  \checkmark  5  \land  5  :  5  $	
Force (g) Duration (msec) Force (g) Duration (msec)	

This tab allows you to configure various hardware settings.

**Watchlock Cube** – activate this option in order for the device to function as WatchLock Cube.

**Monitor "Break-in" events** – not applicable to WatchLock Cube. Do not use.

**Location updates** – GPS enabling option. Once activated, the device'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.

**Filter inputs** – when enabled, the switches status will be changed only after 2 seconds of continuous state.

**Debugging beeps** – factory testing setting. Do not use.

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

Send



**Use A-GPS** – when enabled on supported devices, Assisted GPS data will be downloaded from the GPRS to get better and faster GPS fix.

**Weak Impact / Strong Impact** –accelerometer parameters used to define two types of impact (hit, push, drop. etc.) on the device.

**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.

The default values configured in the device 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 device with different values and choose the best option. The lower the setting, the more often the device will respond to a weaker impact.

Inductive lock / unlock – not applicable to WatchLock Cube. Do not use.

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

to send the changes you made to the device.



### Saving the configuration

If you are planning to configure other devices with the same parameters, you can save these settings as a \*.mem file. Click the **Save** button in the Watchlock 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 device with the saved configuration

To configure a new device with the saved parameters, click the **Load** button in the Watchlock Parameters window, browse to the location where

you saved the configuration file, select the file and press **Open**. Click the

Select All button Select All to select all the parameters and press the Send button to send the changes to the device.



# 5. Testing

It is important to test the device connection to the network, the correct GPS location, the device status and inputs response before installing the device. 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 device 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.

Installer	×
Test successed (unit conr	ected)!
ОК	

If at the end of the TCP Test you do not receive a successful message, check your APN settings (Watchlock 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	
<pre>\tflTesting Mode On \tdm</pre>	
Nodem mode. Ntr	
INIT AT+MIPCALL=0 ERROR	
AT +CGPRS? +CGPRS: 1	
DK AT	
JK AT+MIPCALL=1,"internet","blank","blank" DK	
+MIPCALL: 31.154.153.213	
ICP: Registered	
ICP: Opening socket AT+MIPCLOSE=1 ERROR	
11+MIFUPEN=1,1034, "routing11starcomsystems.com",6600,0	37.

### **GPS test**

*NOTE:* If you're testing the device 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 device 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	
\$GPVTG,000.0,T,,M,000.0,N,000.0,K,A*0D	
\$GPGGA_464732.117,3205.0332,N,03448.3701,E,1,10,0.9,86.7,M,17.9,M,,0000×6E	÷
\$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	
\$GPGSU,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	
\$GPVTG,000.0,T,,M,000.0,N,000.0,K,A×0D	
\$GPGGA,101733.117,3205.0335,N,03448.3700,E,1,10,0.9,86.1,M,17.9,M,,0000*6A	
\$GPGSA,A,3,11,03,32,19,14,22,01,20,23,31,,,1.9,0.9,1.6*3B	
\$GPRMC,101733.117,A,3205.0335,N,03448.3700,E,000.0,000.0,240113,,,A×65	
\$GPVTG,000.0,T,,M,000.0,N,000.0,K,A×0D	
\$GPGGA,101734.117,3205.0330,N,03448.3697,E,1,10,0.9,86.5,M,17.9,M,,0000*63	
\$GPG\$A,A,3,11,03,32,19,14,22,01,20,23,31,.,1.9,0.9,1.6*3B	
SGPRMC,101734_117,A,3205.0330,N,03448_3697,E,000.0,000.0,240113,,,A×68	
\$GPVTG,000.0,T,,M,000.0,N,000.0,K,A*0D	
\$GPGGA,101735.117,3205.0328,N,03448.3694,E,1,10,0.9,8?.7,M,17.9,M,,0000*6E	
\$GPG\$A,A,3,11,03,32,19,14,22,01,20,23,31,,,1.9,0.9,1.6*3B	
\$GPG\$U, 3, 1, 10, 11, 74, 271, 42, 01, 57, 322, 43, 32, 56, 319, 43, 31, 36, 116, 41*76	
\$GPG\$U, 3, 2, 1U, 2U, 34, 294, 4U, 19, 33, 2U1, 4U, 14, 25, U41, 38, 23, 22, 224, 39*7B	
\$GPG\$U,3,3,10,22,13,077,37,03,12,188,34*78	
SGPRMC, 101735, 117, A, 3205, 0328, N, 03448, 3694, E, 000, 0, 000, 0, 240113, , , A×63	
26601C,000.0'1''''''''''''''''''''''''''''''''	
5GPGGA,101736.117	



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 device number in the **Unit Number** field, select **Request status** and press **Send**. The device information will appear.

4795	26		
479526			
Unit N	lumber	1	Address
Status	Testing	Comment	
Installed Static pi Mobile p Light 1: Light 2: Temper	in IN oin IN O ature: N/4	À	
	Output	s <u>(</u> Location	Various /
: Re	quest stat	 us	
> Tra	icking		
Cle	ar Events		
−− Re:	start Unit		
> GP	S co Coll		
	<u>S</u> end!		

Click on the **Inputs** tab, press Request status and check the response in the Device Status window. Use the **Location** tab to check the device's GPS data. Use the **Various** tab to see the device information.

After all the tests have been performed successfully, the unit is ready to be installed.



# 6. Installation

## Assembling the device

Slide the top part onto the lower part of the device.





Use the cross-head screwdriver to screw back the two screws underneath the battery holder.







Carefully slide the battery holder back in its place.





Place the wires back in the track. If necessary, use a small, flat screwdriver to carefully fixate the wires.







Place the top cover back and use the cross-head screwdriver to screw back the two screws.







## **Inserting the batteries**

*NOTE:* WatchLock Cube uses four (4) standard AA batteries. You can use either rechargeable or non-rechargeable batteries. Before installation, please verify that the batteries are fully charged.





Carefully insert each battery according to the polarity markings on the battery holder, ensuring that the + (plus) and – (minus) terminals are aligned correctly.



#### WatchLock Cube User Guide







Slide the plastic cover back onto the device.





Place the rubber cover over the device, insert the shackle back into the device and use the key to close the lock.





The device is now ready for installation.





# 7. Monitoring

After the device 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 <u>http://www.starcomsystems.com/online</u>. 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 devices, including their location.

- **Resources** allows to manage the device and customer information.
- **Plans** allows to create and manage events and alerts.
- **Monitor** monitors the events and alerts from the device.
- **Map** displays the actual location of the device on the map.
- **Reports** generates reports of the device activity.
- **Profile** allows to configure your user properties.
- **Help** contains tutorials and knowledge base.



### Home

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

STARCOM	Home	Resources	Plans	Monitor	Мар	Reports	Profile	Help	🧕 Stepha	n Test (stephan-test)   14:38   <u>Logo</u>
Recently acces	sed units (Live Status)									
Received	Unit			Location					Key / Speed (kph)	Reason
17/01/2013 06:49:50	300926			Ramat Gan, Gil'a	ad				Off / 0	Armed / Tracking
N/A	300946 WL			(0.0000,0.0000	))				Off / 0	N/A
13/05/2018 14:11:50	487188 Helios A	dv UBX 24		Kefar Sava, Yok	thanan ha-	Sandlar (Office	Kfar Saba)		On / 0	Unarmed / Tracking
Units What do you pla	n to do with the sy:	stem? Wirin <u>c</u>	) Tuto	orials						
Google Play	Download on the App Store									
v	'isit us									
✓ Like You and 1.3K others lik	e this.	🎔 Follo	w @starc	omsys 537 fr	ollowers	G+	Follow	D	in Follow < 1,393	

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

**Live status** – displays the current status of all live devices, 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 devices.

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

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



### Resources

The Resources section shows all your devices.

	Home	Resources	Plans	Monitor	Мар	Reports	Profile	Help		
Resources	Details									
Units D	Go to: <1>		Group: [A	ll units]	Search:		Ø			
Groups	Number	Name				Vehide Model	Vehicle	Color	Cellular Number	Last Message
Users Perimeters	555323	<b>3</b> 5553	23 Watchlock							20/08/2012 15:03:56
- Chineseas	555400	3 5554	00 Watchlock							09/09/2012 08:53:15
	555486	5554	86 Watchlock							15/08/2012 15:55:30

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

**Units** – lists the devices.

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

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

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

### Units

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

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

**Name** – displays the icon and the name of the device. 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 device.

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



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

	Unit Information			System
Active		Users	+	Add custom field
*Number	478583 Modify			
Name	Watchlock 478583			
Cellular Number	+1			
Events:	Not yet confirmed			
Unit Type	Watchlock Cube			
Terminal	N/A 🗸	Groups	+	
Model				
Color				
Icon				
No Activity Alert (Hours)	336			
Installation date				
Installation location				
Plate number				
Registration number Manufacturing date				
Special signs	Castions	- <del>-</del>		
	Captions			

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

Use this section to enter the device **Number** and **Name**. In the **Cellular Number** field, enter the country code or the number of the SIM card installed in the device.

In the **Unit Type** list, select Watchlock Cube.

**No Activity Alert (Hours)** – used to receive an alert when the device 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 device 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 device 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.

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

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

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



### Groups

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

	Home	Resources	Plans	Monitor	Мар	Reports	Profile	Help
Resources	Details							
Units	Go to: < 1 >	Go to: <1 > Sear						New
Groups 8	Name		nits	Hears	Sharing			
Users	Neur Creup		1	0	Derimeters Dva	tr		
Perimeters	New Group		1	0	Pennecers, Eve	11125		

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

Name:	New G	Broup		
Units		+		
Users		+		
		Sharing		2
Share P	erimeters outes vents			
Share E	rivers			

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 device you want to make the device available for in the Search field. The name of the device will appear in the dropdown list. Click on it to add it to the Units list. To remove the device, click on the minus sign (-) on the left of the device 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 device 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.

STARCOM	Home	Resources	Plans	Monitor	Map F	Reports	Profile Hel	p	
Systems									
Resources	Details								
Units	Go to: <1>		Sear	ch:	D				New
Groups	Username	Ful	l Name	Company	Phone	E-Mai		Last Login	Created By
Perimeters	testuser	Te	st	Test			test@test.com	N/A	
									Export

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

#### WatchLock Cube User Guide



"Yesmame:		Users	Permissions
*Password:	*Username:		Account is locked
Full Name:   Company:   Address:   City:   City:   City:   City:   Country:   Country:   Allow status requests   Country:   City:   Allow status requests   Country:   City:   Country:   City:   City:   Country:   City:   Country:   City:   Country:   City:   Country:   City:   City: <th>*Password:</th> <th></th> <th></th>	*Password:		
Company: Template: Starcom   Address: Report Access.   City: Google Maps access   ZIP Code: Allow status requests   Country: Allow cotagoing commands   Allow changing tracking interval   Phone: Allow status requests   Country: Allow changing tracking interval   Phone: Allow status requests   Country: Allow changing tracking interval   Phone: Allow status requests   Callow adding units using QR code (Hoble)   Language: English   English Allow status requests   Language: English   Ima zone: EuropeRame (UTC+2)   Allow changing fact   Data Format: 17:09:00   15/01/2018 Cellular Notification   Loggit time out 1   15/01/2018 Cellular Notification   Loggit time out 1   10000 cold and ge cellular number   Temperature Cellular Commands   Time format: 17:09:00   12:09:00 Cellular Commands   Time format: 17:09:00   13:001/2018 Allow cliting cellular number   Ianguage: Ima   13:001/2018 Allow cliting cellular number   Ianguage: Ima   13:001/2018 Allow cliting cellular number   Ianguage: Ima   14:0015 Ima   15:001 Ima   15:002 Ima   10:001 Ima   10:001 <t< th=""><th>Full Name:</th><th></th><th></th></t<>	Full Name:		
Address:       Report Access         City:       Google Maps access         ZIP Code:       Allow status requests         Country:       Allow outgoing commands         Allow changing tracking interval         Phone:       Allow outgoing commands          Allow outgoing commands          Allow outgoing commands          Allow outgoing tracking interval         Phone:       Allow outgoing tracking interval         Phone:       Allow outgoing commands          Allow outgoing tracking interval         Phone:       Allow outgoing tracking interval         Imme zone:       EuropeRome (uTC+2)       Allow outgoing tracking interval         Imme zone:       EuropeRome (uTC+2)       Allow claring fleet         Date format:       15/01/2018       Cellular Commands         Time zone:       EuropeRome (uTC+2)       Cellular Rotification         Lock account after 5 bad login attempts       Distance Units:       Immediate and the set outgoing once a month         Speed units:       Iph       Allow editing cellular number       Allow editing cellular number         Login message:        Allow in the set outgoin (Set edition in the set outgoing in	Company:		Template: Starcom
Address:			
Cly:	Address:		Report Access
ZP Code:       Image:       Allow status requests         Country:       Image:       Allow outgoing commands         Allow changing tracking interval       Allow set unit parameters         *E-Hail:       Image:       Allow stopping vehicle         Language:       English       Image:       Image:       Image:         Logout time out       1       Image:       Image:       Image:         Distance Units:       Image:       Image:       Image:       Image:         Login message:       Image:       Image:       Image:       Image:         Image:       Image:       <	City:		.:: Google Maps access
Country:       Image: Ima	ZIP Code:		Allow status requests
Allow changing tracking interval   Phone: <ul> <li>Allow stunit parameters</li> <li>Allow stunit parameters</li> </ul> *E-Haik <ul> <li>Allow stopping vehicle</li> <li>Allow stopping vehicle</li> </ul> Language: Engleh <ul> <li>Allow daging state changing</li> <li>Engleh</li> <li>Allow daging fleet</li> </ul> Date format: 15/01/2018 <ul> <li>Cellular Commands</li> <li>Time format:</li> <li>17/09:00</li> <li>Cellular Notification</li> <li>Logout time out</li> <li>1</li> <li>Cellular Notification</li> <li>Logout time out</li> <li>Force password changing once a month</li> </ul> Speed units: Im <ul> <li>Cellular Notification</li> <li>Longtude,Lattude</li> <li>Ald Users</li> </ul> <ul> <li>Map Tooltip</li> <li>Format:</li> <li>Inmit (SPEED))</li> <li>Format:</li> <li>Coontinates in reports</li> <li>Show coordinates in reports</li> <li>Show battery voltages</li> <li>Display event popups</li> </ul>	Country:		Allow outgoing commands
Phone: <ul> <li>Allow set unit parameters</li> <li>*E-Hail:</li> <li>Allow adding units using QR code (Mobile)</li> <li>Allow stopping vehicle</li> </ul> <li>Language: English          <ul> <li>Allow logic state changing</li> </ul> </li> <li>Time zone:</li> <li>Europe/Rome (UTC+2)</li> <li>Allow clearing fleet</li> <li>Date Format: 15/01/2018         <ul> <li>Cellular Commands</li> <li>Time format: 17:09:00</li> <li>Cellular Notification</li> <li>Logout time out</li> <li>1</li> <li>Cellular Notification</li> </ul> </li> <li>Distance Units: Im</li> <li>Im</li> <li>Force password changing once a month</li> <li>Speed units: kph</li> <li>Allow editing cellular number</li> <li>Temperature:</li> <li>Celsus</li> <li>Add Users</li> Coordinates: <ul> <li>Longtude_Latitude</li> <li>Add Users</li> </ul> Coordinates: <ul> <li>Longtude_Latitude</li> </ul> Map Tooltip Format: <ul> <li>INITT (ISPEED)</li> <li>Format:</li> <li>Show coordinates in reports</li> <li>Show coordinates in reports</li> <li>Show battery voltages</li> <li>Display event popups</li> </ul> Prior Cell Ence Save			Allow changing tracking interval
*E-Maik Allow adding units using QR code (Mobile)   Allow stopping vehicle   Language: English   Time zone: Europe,Rome (UTC+2)   Date format: 15/01/2018   12:09:00 Cellular Commands   Collular Notification   Loggut time out   (Hours):   Image:   <	Phone:		Allow set unit parameters
Allow stopping vehicle   Language: English   Ime zone: Europe,Rome (UTC+2)   Date format: 15/01/2018   10:00 Cellular Commands   10:00 Cellular Notification   Loggut time out (Hours): 1   10:00 Cellular Notification   Logut time out (Hours): 1   10:00 Cellular Notification   Logut time out (Hours): Im   10:00 Cellular Notification   Logut time out (Hours): Force password changing once a month   Speed units: Reph   Celsius Allow editing cellular number   Immersage: Allow   Map Tooltip MINTT (ISPEED))   Format:	*E-Mail:		□ Allow adding units using QR code (Mobile)
Language: English Inlow logic state changing   Time zone: Europe/Rome (UTC+2) Inlow claiming fleet   Date Format: 15/01/2018 Cellular Commands   Logout time out 17:09:00 Cellular Notification   Logout time out Inlow is cancer of the state of th			Allow stopping vehicle
Time zone: Europe/Rome (UTC+2)     Date Format: 15/01/2018   1 Image: Cellular Notification   Logout time out (Hours): <ul> <li>Image: Cellular Notification</li> <li>Allow editing cellular number</li> <li>Add Users</li> </ul> Coordinates: Image: Cellular Notification   Image: Cellular Notification <ul> <li>Add Users</li> </ul> Coordinates: Image: Cellular Notification   Image: Cellular Notification <ul> <li>Add Users</li> </ul> Coordinates: Image: Cellular Notification     Image: Cellular Notification <ul> <li>Add Users</li> </ul> Coordinates: Image: Cellular Notification   Image: Cellular Notification <ul> <li>Add Users</li> </ul> Coordinates: Image: Cellular Notification     Image: Cellular Notification <ul> <li>Add Users</li> </ul> Coordinates: <ul> <li>Image: Cellular Notification</li> <li>Image: Cellular Notification</li> </ul> Account expiration: <ul> <li>N/A</li> <li>Image: Cellular Notification</li> <li>Image: Cellular</li></ul>	Language:	English	✓ □ Allow logic state changing
Date Format: 15/01/2018   Time Format: 17:09:00   Logout time out 1   (Hours): 1   Distance Units: km   km I   Coordinates: Longitude,Latitude   Map Tooltip Immark   Format:	Time zone:	Europe/Rome (UTC+2)	✓ □ Allow clearing fleet
Time Format: 17:09:00   Logout time out 1   (Hours): Immove the start of t	Date Format:	15/01/2018	✓ Cellular Commands
Logout time out (Hours): I   Distance Units: Im   Image: Speed units: Image: Image	Time Format:	17:09:00	✓ ✓ Cellular Notification
Distance Units: km	Logout time out (Hours):	1	Lock account after 5 bad login attempts
Speed units: kph   Temperature units: Celsius   Coordinates: Longitude,Latitude   Map Tooltip Format: IUNITI ([SPEED])   Format:	Distance Units:	km	✓ □ Force password changing once a month
Temperature Codius   Coordinates: Longitude,Latitude   Map Tooltip   Format:   UNITI (SPEED)   Format:	Speed units:	kph	✓ □ Allow editing cellular number
Coordinates: Longitude;Latitude   Map Tooltip UNIT! ([SPEED])   Format:   Login message:     Account N/A   expiration:   Expiration:     All units   Show coordinates in reports   Show battery voltages   Display event popups	Temperature units:	Celsius	✓ Add Users
Map Tooltip   Format:     Login message:	Coordinates:	Longitude,Latitude	<b>~</b>
Format:	Map Tooltip	UNIT   ( SPEED  )	
Login message:     Account   expiration:   N/A     Expiration   message:	Format:		<u></u>
Account	Login message:		
expiration: N/A Expiration message:	Account		
Expiration message: All units Show coordinates in reports Show battery voltages Display event popups Cancel Save	expiration:	N/A	
	Expiration message:		
□ Show coordinates in reports         □ Show battery voltages         □ Display event popups         ☑ Delete       ☑ Cancel	All units		
Show battery voltages Display event popups Cancel Save	□ Show coordina	ates in reports	
Display event popups          Delete       Cancel       Save	□ Show battery	voltages	
Delete Cancel Save	Display event	popups	
Delete Cancel Save			
Delete Cancel Save			
	Delete	Cancel	Save



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

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

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

**Show battery voltages** – displays the battery charge in volts.

**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 device status requests.

**Allow outgoing commands** – enables the user to send commands to the devices.

**Allow changing tracking interval** – enables the user to change the devices' tracking interval.

**Allow set unit parameters** – enables the user to change the devices' settings.

**Allow adding the units using QR code (Mobile)** – enables the user to add a new Zeppos device in Olympia Tracking app.

**Allow stopping vehicle** – enables the user to send a Gradual Stop command to the device.

**Allow logic state changing** – enables the user to change the devices' Logic State.

**Allow clearing fleet** – enables the user to send a Clear Events command to the devices.

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

**Cellular Notification** – enables the user to receive cellular notifications.



**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 device.

Add Users – allows to create new users.

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

Users	Permissions
Copy from another user	
= 🛙 Resources	
Units - Edit	
Units - Captions - Edit	
Groups	
🗹 Groups - Edit	
☑ Drivers	
Drivers - Edit	
🗹 Users	
🗹 Users - Edit	
Perimeters	
Perimeters - Edit	
🕹 🗹 Plans	
🖶 🗹 Monitor	
4 🗹 Help	
Map	
Z Live Status	
2 Profile	
🕸 🗹 Reports	

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.


### Places

You can create new and modify the existing perimeters.

	Home	Resources	Plans	Monitor	Мар	Reports	Profile	Help			
Resources	Details										
Units	Go to: <1>			Search:		<b>N</b>				New	
Groups	Name *		Ado	Iress					 Created By		
Perimeters 8	New Perimeter		Dub	lin, Tara Street	(-6.2550,53.3	164)					
										Import	Export

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 on the settings icon in the lower right corner of the map, **Options > 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).



	RIVERSTON CONSI		St Patrick's College O Conserver		<u>E.</u>
ASH	TOWN Cabra Fastaugh				
			ndtes Rz		
	(405)		DRUMCONDRA	(FIDS) (RAD7)	
			Croke Park O		
				Mid O Fact Pal	
			Private  Mountjoy Converse Darke	NORTH STRAND	
hoenix Park					
		STONEYBATTER Dubin City	Gallery O. @ James Joyce Centre Cane O. Rotunda Hospital	EAST WALL RITE	TOLKA QUAY
	and the second se	ADDITION HAVE			To DUBLIN PORT
	Create New Perimeter		Dublin		Dublin Port O
	Perimeter Name Perimeter Name		(110) (110) (10) (10) (10)	PIC The Irish C The Gib Impration Museum 3Arena O	
	Color FFFFF		ge () () () () () () () () () () () () ()	Row Lifley (121)	
	Gan		Trinity College Dublin	The Marker Hotel Dublin	
(RESS) (RESS)	M	Close	we blin Castle		
C III	(1810) St. James's Hospit	al	National Museum of O	Google Building	
	Platin Thd			Gordon House	
		MARYLAND Distillery C	Green OC.	asiho and Card Club (ATT) BEGGAR'S BUSH	
		Coombe Womens Hospital	Iveagh RTIA Gardens RTIA	Aviva Stadium C	
			Royal Victoria Eye	(All 16)	
downe Valley	Brickfields Keeperad	Griffith College 🖸 (2007)	and Ear Hospital	Ballsbridge C	
Chand Poli					
	CRUMLIN				Cullage Rts
Our Lady's Children's Hospital, Crumlin	0	HAROLD'S CROSS BARI		Herbert Park	
		amonn O Moura Isroma		RISH KUS Main Arena 🖸	
		annt Park			
00			Rathmines 8 5 9 6		

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, use the Longitude, Latitude fields on the left.

Name:	New Perimeter
Longitude:	-6.2697
Latitude:	53.3462
Distance:	0
Last updated:	27/05/2018 15:28:44
Hidden:	



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 **Places** 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 **Places** 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.

		Home	Resources	Plans	Monitor	Мар	Reports	Profile	Help
Plans	Basic								
Basic 🛛 🔊	This screen will assist you to set up your	system usage p	lan.						
Events	What do you plan to do with the system Generate reports about ignition wor Receive alarms about speed violation Receive alarms when entering/leavin Receive alarms when avehicle's doc Generate reports about back doors Next	n? rking hours and 15 19 a designated d the vehicle is a specific locatic specific locatic opening (where	mileage area n't moving in cific location e installed)						

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

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

**Events** – allows to create events for your devices.

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

Plans	Events Types			
Basic	Go to: <1 →	Search:		New
Events 🛛	Name	*	Created by	Events
	Analog Inputs		System	Analog
	Door opening in a specific location		System	Input, Perimeter
	Excess idling		System	Input, Speed, Wait
	Harsh acceleration		System	Transition
	Harsh deceleration		System	Transition
	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.

Event type^					
Name:	New Event Type				
Day of the week:	Changeable				
	<ul> <li>✓ Monday</li> <li>✓ Tuesday</li> <li>✓ Wednesday</li> <li>✓ Thursday</li> <li>✓ Friday</li> <li>✓ Saturday</li> <li>✓ Sunday</li> </ul>				
Time range:	Changeable 00 : 00 to 23 : 59 (h:m)				

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

Events	
Add Event	
Remove Event	
Туре:	Wait
Value:	Wait
Operand:	Set Output
operatio.	Input
Add Event	Speed
	Perimeter
	Roaming
	GPRS
	Tracking
	Mileage
	Analog
	Logic state
	RPM
	Transmit Reason
	Transition



Most of the types listed here relate to the Helios devices. The event types that can be used for WatchLock Cube are: **Wait, Perimeter, Roaming, GPRS, Tracking, Logic State** and **Transmit Reason**.

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.

Basic         Go to: <1 >         Search:         Image: Search:         New           Events         Mame         Created by         Units         Events           Entering Work         stephan-test1         487188 Helios Adv UBX 24         Location	Plans	Events Types			
Name         Created by         Units         Events           Entering Work         stephan-test1         487188 Helios Adv UBX 24         Location	Basic Events	Go to: <1 >	Search:		New
Entering Work stephan-test1 487188 Helios Adv UBX 24 Location		Name	• Created by	Units	Events
		Entering Work	stephan-test1	487188 Helios Adv UBX 24	Location

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

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



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		Event.				
Name: Units	New	Event		Available for		Monitor
312344 Taxi 312351 Taxi 312582-Kylos 312583-Kylos 312608 Watu 405042 405059 405090 418228 Watu	s Forever s Forever chlock 2 chlock	~	Add > Remove		< >	<u>E-Mail</u> Add
Events						
Add Event	:					

Enter the 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.

Events	
Add Event	
Remove Event	
Туре:	Input 🗸
Name:	Input
	Location
Time range:	Speed violation
	Excess idling
🗹 Monday	High speed in a specific location
✓ Tuesday ✓ Wednesday	Door opening in a specific location
Thursday	Analog Inputs
Saturday	Mileage
Sunday	Harsh acceleration
Input:	Harsh deceleration
Condition:	Toggle 🗸
Add Event	



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 device 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**.

	Event/	<u>.</u>			
Name:	Entering Perim	eter			Manifer
Units			Available for		L Monicor
312344 Taxi 312351 Taxi 312582-Kylos Forev 312583-Kylos Forev	er er	Add	418228 Watchlock	^	E-Mail
312608 Watchlock 405042 405059 405090 418627 Starcom ter	2 st v	Remove		~	Add

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

Enter the 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		
Туре:	Location	$\sim$
Name:	Entering Work	
Time range: Monday Tuesday Wednesday Wednesday Friday Saturday Saturday Sunday	from 00 :00 to 23 :59 (h:m)	
Perimeter:	Office	$\sim$
Condition:	Entering	$\sim$
Ignore Location by Cells:	On	$\sim$
Add Event		

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 device enters a specific location, is created.



### Monitor

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

Home Resource	es Plans Monitor	Мар	Reports	Profile	Нер
Details 🛃					
60 to: < 1 2 >	Vehicle: [All units]	Event:	[All events]	<b>• &gt;</b>	
Time ^	Vehicle	Driver	Event		Address
24/02/2013 18:31:25	Watchlock 555010		WL test (Closed	i)	Cointrin, Route De L' Aéroport (6.1047,46.2293)
24/02/2013 18:31:21	Watchlock 555010		WL test (Open	ed)	Cointrin, Route De L' Aéroport (6.1047,46.2293)
24/02/2013 16:11:42	Watchlock 555010		WL test (Closed	i)	Cointrin, Route De L' Aéroport (6.1047,46.2293)
24/02/2013 16:11:33	Watchlock 555010		WL test (Open	ed)	Cointrin, Route De L' Aéroport (6.1047,46.2293)
24/02/2013 16:09:53	Watchlock 555010		WL test (Closed	i)	Cointrin, Route De L' Aéroport (6.1047,46.2293)
24/02/2013 11:09:27	Watchlock 555010		WL test (Open	ed)	Mons, Route du Château (6.0952,46.2620)
24/02/2013 11:05:46	Watchlock 555010		WL test (Closed	i)	Mons, Route du Château (6.0952,46.2620)
24/02/2013 11:05:17	Watchlock 555010		WL test (Open	ed)	Mons, Route du Château (6.0952,46.2620)

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



#### WatchLock Cube User Guide

Dotails							
Decails							
Name	New Alert					Day of the week:	
Unit Type	Watchloc	k/Kylos/K	ylos Compact \vee			☑ Monday ☑ Tuesday	
Sound	Message		$\sim$	Test		<ul> <li>✓ Wednesday</li> <li>✓ Thursday</li> <li>✓ Friday</li> </ul>	
Units				Available for		Saturday	
STWL2 Unit 477899 Watchlock 433386 Watchlock 478583 Watchlock 550914 Watchlock 552208 Watchlock 552337 Watchlock 821842ul	Blox/uBlox		Add Diagonal Add Remove		^	Time range:	from 0:0 to 23:59 (h:m)
Watchlock 821843 u	IBIOX/UBIOX	¥			¥.		
Available reasons Tracking Event Emergency Low battery Static pin IN Static pin OUT Strong Impact Mobile pin IN	5	^	Add 义 Remove	Notify for	^		
Mobile pin OUT Notify for E-Mail		~			~		
Add							

Select Watchlock/Kylos/Kylos Compact in the Unit Type list.

In the **Units** list, select the devices you want to include in the event and click **Add**. The devices 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.

- Tracking alerts on every regular transmission.
- Event alerts on every event created in the Plans section.
- Emergency not applicable to WatchLock Cube.
- Low battery alerts you of the battery getting low.
- Static Pin IN/OUT not applicable to WatchLock Cube.
- Mobile Pin IN/OUT not applicable to WatchLock Cube.



- Weak / Strong Impact events which show two types of impact on the device. These events are triggered by the accelerometer, which can be configured in Installer > Watchlock Parameters > Hardware.
- Location Update event which will update you on the device location status.
- Closed / Opened alerts triggered upon opening and closing of the lock.
- Maintenance not applicable to WatchLock Cube.
- Break-in not applicable to WatchLock Cube.
- Power on alert that is sent when the device turns on.
- Light On/Off not applicable to WatchLock Cube.
- Temperature Low/High/Normal not applicable to WatchLock Cube.
- Logging alerts on every logging transmission.
- 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 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 devices, they will appear on the Monitor page. The email notifications are accumulated and sent once every half an hour to avoid spamming.



### Мар

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



You can select a device, or a group of devices in the dropdown list on the left.

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

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



	STA	RCOM Systems	Hor	me Resource	es
	Unit	WL Spain  All de Pedralbes	X BL-	Shopping Ma L'illa Diagonal	Carrel
	Location Received Reason Version	Barcelona, Avinguda de la Reina Maria Cristina, 95 m SE of Espanya 10/06/2015 00:52:20 Locked / Ping 2015.03.15 (Watchlock uBx)	ping Mall te Inglés Diagonal	LES CORTS	
	Location			DE SARRIA	
	Valid Coordinates Altitude	09/06/2015 16:11:07 (2.1502,41.3737) 0 m	Carrer de N	carter de Caballeto	carrerde
	ю		Plaça del	Centre 👁	
	Battery	66% / 3.93v	ANTS-MONTJ	JUIC	Sants
(	Commands		Carre	arter	
	Request	Status	arref de Joan r del Tenor M	SANT Catrer d	S I
	All and a second	Collblanc O McDonald's Carrelo Badal	N-340 Plaça de Sa	Alcolea Alcolea	N-34
0	aleast 2.3	COLLBLANC Care Care Care Care Care Care Care Car	Mercat Nou 📀	Carrier de Rossen carrier de Rossen carrier dels Joc	

The following device information is displayed:

- Location the address of the last GPS position of the device
- Received the date and time of last transmission from the device
- **Reason** the reason for the transmission
- Version the device firmware version
- Location the GPS location of the device, including:
  - Valid the date and time of the last location transmission from the device
  - **Coordinates** the GPS coordinates of the last position of the device
  - Altitude the last altitude of the device



- **IO** device input / output information
- Commands
  - **Request Status** requests the current status of the device
  - Tracking overrides the device transmission rate settings and forces the device to transmit according to the specified interval.
  - Stop Tracking stops the tracking command and returns the device to its regular transmission rate
  - The Queued commands option allows you to send a command to the device while it is in sleep mode. The next time the device wakes up to transmit, it will receive the command. This can be used to change the device tracking interval, for example.

Tracking	€
Interval:	
6 hour	<u>-</u>
Queued	commands

To enable the queued command, select the command and then press the plus (+) icon on the right.

To remove the queued command, press the x icon on the right.





Click on the settings icon in the bottom left corner to reveal the Map 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.
- **Create new perimeter** allows to create a new perimeter.
- Edit perimeter allows you to edit an existing perimeter.
- Distance measurement allows to measure the distance between two points on the map.
- **Shapes** displays your perimeters on the map.
- All units displays all your devices on the map at once.
- **Map types** you can select the following map types: OpenStreetMap, Yandex, ESRI Imagery, Google RoadMap, Google Satellite, Google Hybrid.



### Reports

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

	Home	Resources	Plans	Monit	or	Мар	Reports	Profile	Help	
Reports	Choose Repo	rt								
Instant	Report:	Work H	lours					•		
Schedule	Vehicle:	300926	5					•		
	Date Range:	14/03/2	2013	07:00	to	14/03/2013	20:00			
		Date		Time		Date	Time			
	Generate									

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

**Instant** – allows to generate reports on demand for a single device or a group of devices 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.

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 device or group of devices 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 device on one day and for a specific time period.



Image: second					Vehicle History	
Network         National         Installed         Secola (f.sh)         Melage (f.sh)         Adversame (f.sk) (sk))           2509/2013 07:95:50         Tradong         Installed         Installe	Vehicle: triton01 Date Range: From 25/03/2013 & To 28/03/2013 & To Save Export	07:00:00       Image: Compare the second secon		Aluatiancillo Coscontarepec (43) Autuatiancillo Orizaba Cran Cran Cran Cran Cran Cran Cran Cra	Coatepec o Teocelo Totula	Venticle History Zempola José Cardel La Antigua Traffic Map Satellite Sole Cardel La Antigua Teo Paso de Ovejas Paso de Ovejas Boca de Rio Sole dad do Dot Bocas Sole dad do Dot Bocas Sole dad do Dot Bocas (sol Boca de Rio (sol Boca de Rio (sol Bocas de Rio (sol Bocas (sol Bocas de Rio (sol Bocas de Rio (sol Bocas (sol Bocas de Rio (sol Bocas de Rio (sol Cocas de Rio (sol Cocas de Rio (sol Cocas de Rio (so
NetwordNetwordNetwordNetwordNetwordNetword2500/2013 07:95:00TrickingGrading </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
2ingload 000000000000000000000000000000000000	Received	Reason	Installed	Speed (Kph)	Mileage (Km)	Address
230/2013 07:40.30PrigPr	25/03/2013 07:39:58	Tracking	On	0	0	(1) <u>Veracruz, Fidel Velazquez (-96.1455,19.2119)</u>
28/08/03 084/03Fackage000 <th< td=""><td>25/03/2013 07:40:30</td><td>Ping</td><td></td><td></td><td></td><td>Veracruz, Fidel Velazquez (-96.1455,19.2119)</td></th<>	25/03/2013 07:40:30	Ping				Veracruz, Fidel Velazquez (-96.1455,19.2119)
Zidigizi bisekcisi         Prog         Index         Index         Index         Index         Index           Zidigizi bisekcisi         Tacking         Na         0         0         Varcuz, Field Vebarouser (266.1555.19.2118)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2118)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2118)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2118)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2112)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2112)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2112)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2112)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2112)           Zidigizi bisekcisi         Tacking         0         0         Varcuz, Field Vebarouser (266.1555.19.2118)           Zidigizi bisekcisi <td>25/03/2013 08:40:00</td> <td>Tracking</td> <td>On</td> <td>0</td> <td>0</td> <td>Veracruz, Fidel Velazquez (-96.1455,19.2119)</td>	25/03/2013 08:40:00	Tracking	On	0	0	Veracruz, Fidel Velazquez (-96.1455,19.2119)
23/03/0310 99402         Tackyn         Pin         O         O         O         O         O         O         O           23/03/031 094024         Pen         No         Q         No         Versuur, Pidel Vekkouer (-96.1455,19.2118)           25/03/031 014035         Pen         No         Q         Versuur, Pidel Vekkouer (-96.1455,19.2118)           25/03/031 114037         Pen         No         Q         Versuur, Pidel Vekkouer (-96.1455,19.2118)           25/03/031 114037         Pen         No         Q         Versuur, Pidel Vekkouer (-96.1455,19.2118)           25/03/031 214068         Tackyn         Pen         Versuur, Pidel Vekkouer (-96.1455,19.2112)           25/03/031 214068         Pen         Versuur, Pidel Vekkouer (-96.1455,19.2112)           25/03/031 214063         Pen         Versuur, Pidel Vekkouer (-96.1455,19.2118)           25/03/031 214063         Pen         Versuur, Pidel Vekkouer (-96.1455,19.2118)           25/03/031 214063         Pen         Versuur, Pidel Vekkouer (-96.1455,19.2118)      <	25/03/2013 08:40:31	Ping				Veracruz, Fidel Velazquez (-96.1455,19.2119)
Zajdarajo sekciasProgIncomeFormationVeracut, Rela Veracut, Rel	25/03/2013 09:40:02	Tracking	On	0	0	Veracruz, Fidel Velazquez (-96.1455,19.2118)
Zind Junktion         Internation         One         Variant reading logic logic logic logic logic logic           Zind Junktion         Ping         Internation         Variant reading logic logic logic logic logic           Zind Junktion         Ping         Internation         Variant reading logic logic logic logic logic           Zind Junktion         Ping         Internation         Internation         Variant reading logic logic logic logic logic           Zind Junktion         Ping         Internation         Internation         Variant reading logic logic logic logic logic           Zind Junktion         Ping         Internation         Internation         Variant reading logic	25/03/2013 09:40:34	Ping				Veracruz, Fidel Velazquez (-96.1455,19.2118)
Zajószy kelésés         Projection         Control         Control         Veracuz, Fold Velacuer (96,1456,19,21)2           Zsjól zla 114:066         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)2           Zsjól zla 114:067         Prog         On         On         Veracuz, Fold Velacuer (96,1456,19,21)2           Zsjól zla 114:068         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)2           Zsjól zla 114:068         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)2           Zsjól zla 114:068         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)2           Zsjól zla 114:068         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)7           Zsjól zla 114:068         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)7           Zsjól zla 114:078         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)17           Zsjól zla 114:078         Tacking         On         On         Veracuz, Fold Velacuer (96,1456,19,21)18           Zsjól zla 114:078         Pon         On         On         Veracuz, Fold Velacuer (96,1456,19,21)18           Zsjól zla 114:018         Tacking         In	25/03/2013 10:40:04	Tracking	On	0	0	Veracruz, Fidel Velazquez (-96.1455.19.2118)
Zalogia Linkowie         Randy         Name         O         O         Vertactur, Fiel Ve	25/03/2013 10:40:35	Ping	0-			Veracruz, Hdel Velazquez (-96.1455,19.2118)
Zajószy i król         Nag	25/03/2013 11:40:06	Tracking	On	0	0	Veracruz, Fidel Velazquez (-96.1456.19.212)
Zajógy 2013 12:40:09         Nakoli         Nakoli         Nakoli         Nakoli         Nakoli         Nakoli           Zsjógy 2013 12:40:39         Pig         Nakoli	25/03/2013 11:40:37	Ping	0.5	0	0	Veracruz, Hidel Velazquez (-96.1456.19.212)
Zhydyna i zwas         Mark	25/03/2013 12:40:08	Ring	Un	U	0	Veracruz, Fidel Velazquez (-96.1456.19.212)
Ziyograf 13:40:3         Intering         One         One         One         Pression P	25/03/2013 12:40:03	Pilig	05	0	0	Veracruz, Fidel Vebzquez (-96.1456.19.212)
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	25/03/2013 21:40:20	Tracking	On	0	0	Veracruz, Fidel Velazquez (-96.1456,19.2119)

### WatchLock Cube User Guide

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

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

On the bottom of the Map section there is a Play button  $\mathbf{D}$  that enables you to play back the movement of the device on the map.

To save the report, click Save

as an HTML file in a zip.

To export a report, click **Export** . The report is exported as a CSV file, which can be viewed in Excel.

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.

Reports	Details			
Instant	Go to: (1) 5	Search:		New
Schedule 🛛	Generate	Report	E-Mail	Lact Topued
	ocherete.	nepore		
				91









Print



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

Report			
Report:	History - Technical	$\sim$	CSV only
Unit:	[All units]		
Fields:	Full report	¢	
Graphics:	Full report	¢	
Transmit Reasons:	Full report	₽	
Repeat:	Daily	$\sim$	
Start time:	20:00 ~		
End time	20:00 ~		
Send to:	support@starcomsystems.com		
Next scheduled:	N/A		

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 device or group of devices for the report.

Select the **Fields**, **Graphics** and **Transmit Reasons** you want to see in the report in the respective fields.

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

Use the **Start time** and **End time** dropdown lists to select the time at which you want to generate the report.

The **Send to** field is populated with the default email address for the account. 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:	New	
Schedule 8	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 devices. You can view and modify these details as required.

Profile								
Username:	demo							
Password:								
Full Name:								
Company:								
Address:		:						
City:								
ZIP Code:								
Country:	United Kingdom							
Phone:								
E-Mail:	support@starcomsystems.com							
Language:	English	$\sim$						
Time zone:	UTC+5	$\sim$						
Date Format:	15/09/2014	$\sim$						
Time Format:	15:09:00	$\sim$						
Distance Units:	miles	$\sim$						
Speed units:	mph	$\sim$						
Temperature units:	Celsius	$\sim$						
Coordinates:	Longitude,Latitude	~						
Map Tooltip Format:	VEHICLE  ( SPEED )							
🗹 All units		•						
Show coordina	tes in reports							
Show battery v	voltages							
Display event popups								
Cancel	Save							

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 device.

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.

Country:	United Kingdom			
Phone:			Map Tooltip Format	×
E-Mail:	support@starcomsystems.com		REASON Reason LOCATION Location	
Language:	English	$\sim$	SPEED Speed STATE Unarmed	
Time zone:	UTC+5	$\sim$	TIME_VALID  Time Valid ALTITUDE  Altitude	
Date Format:	15/09/2014	$\sim$	MILEAGE  Current mileage  HEADING  Heading  DOOR  Door Closed/Opened	
Time Format:	15:09:00	$\sim$	KEY  Key Off/On EMERGENCY] Emergency Off/On	
Distance Units:	miles	$\sim$	HOOD Hood Closed/Opened MOTION Motion Off/On STREN Siren Off/On	
Speed units:	mph	$\sim$	OIL  Oil Pressure Off/On WATER  Water Temp Off/On	
Temperature units:	Celsius	$\sim$	SHOCK Shock Off/On ANALOG1 Analog 1 ANALOG2 Analog 2	
Coordinates:	Longitude,Latitude	$\sim$	VOLTAGE   Main power  X  Longitude	
Map Tooltip Format:	VEHICLE  ( SPEED )	?	Y  Latitude  DRIVER  Driver	

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







### Help

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

STARCOM		Home	Resources	Plans	Monitor	Мар	Reports	Profile	Help		
Help	Contents										
Help 🛛	Paparte										
Tutorials	<ul> <li>How can I get reports on a regular</li> </ul>	basis delivere	d to my e-mail?								
Wiring	<ul> <li>How can I get roport on a region base detected of high a main</li> <li>How can I remove a report from the scheduled reports list, so I won't get it by email any more?</li> </ul>										
	Unit Configuration										
	How do I configure analog devices	?									

Click on the appropriate tab to access the necessary information.



# Appendix A – Device Communication in Starcom Systems

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



The device transmits messages according to the values specified in WatchLock Parameters > Transmission Rates settings (GPRS, SMS).



When the device'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 device will attempt to connect to the network and transmit via GPRS. This process is illustrated in the following figure.



The device 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 – Maintenance

Use OKS 1133, Low-Temperature Silicone Grease, to lubricate the pins and the spring.







## **Appendix C – Contacts**

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

## **Technical Support**

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

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