

# **Remote Management System**

**User Manual** 

**v\_0.30** 

## **Table of Contents**

1. Main Menu	4
2. User Tab	5
2.1. Inbox	5
2.2. Notifications	
2.3. User settings	
2.3.1. User settings	
2.3.2. Setting	7
2.3.3. Help guide	
3. Management	
3.1. Overview	
3.1.1. Device details	
3.2. Mobile	
3.3. Device	
3.4. Hardware	14
3.5. Hotspot	14
3.6. Monitoring	
3.7. GPS	
3.8. I/O	
3.9. Groups	
4. Users	
4.1. Users	
4.2. Profiles	21
5. Creating RMS profile for other clients	22
22	
5.1 Usage scenario	
6. Fota	
6.1. Device Tab	
6.1.1. Add device	
6.1.2. Add device list	
6.1.3. Unregister	
6.2. Command Tab	
6.2.1. Select FW	
6.2.2. Select Config	
6.2.3. Authorization	
7. Files	
7.1 FW files	
7.2. Config files	
8. Events	
8.1. Device events	
8.2. Profile events	
8.3. User events	
8.4. System events	
9. Reports	
9.1. Reports	
9.1.1. Add new Report	
9.2. Generated Reports	
10. Licenses Pool	



11.	RMS Licenses pool for Admin	.35
12.	Feedback	.36

## 1. Main Menu

5503 Gover	Online Offline Not monitored Not activated	5503 Microsoft	Less than 5 min before     Less than 1 hour before     Less than 1 day before     More than 1 day before     Unknown	5503 Ventoria	<ul> <li>More than 1 month</li> <li>Up to 1 month</li> <li>Up to 1 day</li> <li>Up to 1 hour</li> <li>Unknown</li> </ul>
5503 2002	RUT9XX R 00.03.78     RUT9XX R 11.02.425     RUT9XX R 00.03.452     RUT9XX R 00.02.419     Other     Unknown	5503	RUT950 RUT955 RUT900 Other Unknown	5503 Nove	<ul> <li>Home network</li> <li>Roaming</li> <li>Unknown</li> </ul>
5503	Excellent     Average     Low     No signal     Unknown	5503 Craixin	<ul> <li>4G</li> <li>3G</li> <li>2G</li> <li>No connection</li> <li>Unknown</li> </ul>	5503	<ul> <li>GPS</li> <li>Mobile</li> <li>Manual</li> <li>Unknown</li> </ul>

	Field name	Explanation
	Menu	Show and hide options
<b>.</b>	Management	Tab for router monitoring and configuration
	Users	Tab for managing RMS users and profiles
$\bigcirc$	Fota	Tab for <i>Fota</i> configuration
	Files	Tab for files uploading to RMS system
	Events	Shows Events of Device, Profile, User and System
	Reports	Tab for Reports managing
Ē	Pools	Tab for licenses pool Summary
$\mathcal{Q}$	Feedback	Tab for sending feedback to Teltonika

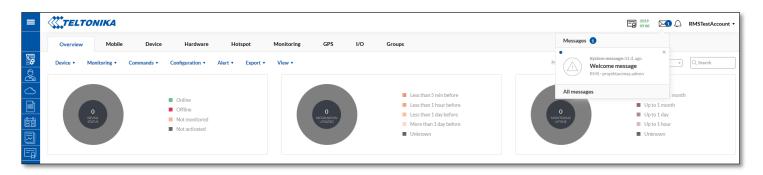
## 2. User Tab

Via User Tab you can read/send messages, check your devices notifications, and see your licenses pool summary or change user settings.



#### 2.1. Inbox

Via Inbox tab you can see most recent messages which you get from RMS system administrator.



In the Inbox Tab you can find all received messages from RMS system administrator, create new message and report noticed bug or leave a suggestion about RMS system.

≡	<b>(</b> TE	LTON	IKA		D 2019 09 08 A C RMSTestAccount •
	Inbox	Se	nt		
Bo 🖏	Feedback	k 🔻			
	Create				
$\bigcirc$	Delete	e or 1	entries		« »
÷	$\checkmark$	$\bowtie$	Message subject	Message	Date
			Welcome message	Welcome to router Remote Management System. Feel free to look around and try out all the functionality RMS can offer. Have any questions o	2017-06-23 12:15:01
				June 23, 2017	

### 2.2. Notifications

Notifications tab will inform you about your devices events, which are related with signal strength, SIM switch, device status change or mobile data usage. Alarm notifications settings can be found via *Management -> Overview ->* Alert.

Signal strength SIM switcl	Status change	Mobile data GPS geofencing			Alert - At the moment	
					No alerts	Q Search
ntries			All alerts	All notificat	Admin ions	
me	1AC	Event type	Event subtype	Action	Time	Actions
in	ne N	ne MAC	ne MAC Event type	ne MAC Event type Event subtype		

If you configure alert settings and if event happens on your device you will be notified in the RMS system.

<b>(()</b>	

<		TE	LTC	<b>NIKA</b>					$\bowtie$	🕼 Test 🔹
	c	Overv	ew	Mobile Device	Hardware Hotspot Moni	toring GPS I/	O Groups	Notific	ations 1	
	evice	2 •	Mon	itoring  Commands  Confi	guration • Alert • Export • View •		Profile: All		Status change alert-19 h. ago	×
	6		ng 1 to :	2 of 2 entries		Overview			MAC 12:34:56:78:91:92	
								All not	ifications	
		$\hat{\mathbf{v}}$	٢	Name	Description	Group	MAC	Information Updat	ed Monitoring Uptime	Actions
		$\hat{\mathbf{v}}$	0	RUT95517V1J0, 12:34:56:78:91:92	s/n 12345678 added at 2016-08-31 16:56:39	Report	12:34:56:78:91:92	20 hours ago	-	
		$\hat{}$		. 12:34:56:78:91:92	s/n 12345678 , added at 2016-08-31 13:07:23	Report	12:34:56:78:91:92	5 days ago	_	(i)

In All notifications Tab you can find previous your device events which are related to SIM switch, signal strength, device status change or mobile data usage.

	All	alerts	Signal strength	SIM switch	Status change	Mobile data	GPS geofencing			
	Alert 🔻								Q Sea	rch
<u>a</u>							A.H 1 4 -			
		howing 1 to 7 of 7					Allalerts			
1										
Ĵ.		Name		MAC	Event typ	pe	Event subtype	Action	Time	Actions
		-	12:34:	56:78:91:91	Status cha	inge	Gone offline	sendEmail	2016-09-19 10:20:00	() L >_
		-	12:34:	56:78:91:91	Status cha	inge	Gone offline	sendEmail	2016-09-19 10:17:53	
		_	12:34:	56:78:91:91	Status cha	inge	Gone offline	sendEmail	2016-09-19 10:14:41	() L >

## 2.3. User settings

In the User settings Tab you can change user settings or get quick help from the Help guide.

			RMSTestAccoun
Overview Mobile Device Hardware Hotspot Mon	nitoring GPS I/O Groups		User settings Change passwo
Device • Monitoring • Commands • Configuration • Alert • Export • Vie	ew •	Profile: All • Group: All •	Settings Help guide
Online     Orline     Orline     Orline     Not monitored     Not activated	Less than 5 min before     Less than 1 hour before     Less than 1 hour before     Less than 1 day before     More than 1 day before     Unknown	More than 1 month     Up to 1 month     Up to 1 month     Up to 1 day     Up to 1 hour     Unknown	Logout

#### 2.3.1. User settings

If you want to change your email address you have to enter your account password. Also in the User settings Tab you can change auto logout time from RMS.

E-mail:		
email@gmail.com		
In order to change ema	il, please enter your RMS account password:	
Auto logout time (minu	utes):	
60		
Time zone:		
(GMT+02:00) Helsin	ki, Kyiv, Riga, Sofia, Tallinn, Vilnius	•
	Save	

#### 2.3.2. Setting

Via Settings Tab you can set parameters update period, offline device detection timeout, allow parameters monitoring and check totally monthly data usage per device. Settings apply for all devices in the profile. Same settings you can also find via *Management -> Monitoring -> Configure*, but they only apply for selected devices.

Dynamic pa	rameters	5	
5	Minutes		Ψ
Static paran	neters	V	
15	Days		v
Hotspot par	ameters	V	
5	Minutes		v
GPS parame	eters		
5	Minutes		
Input/Outpu	it parameters	$\checkmark$	
Input/Outpu 5	It parameters Minutes Heartbeat confi Applies for all device	guration	
5	Minutes Heartbeat confi	guration	*
5 Offline devi	Minutes Heartbeat confi Applies for all device	guration in profile	*
5 Offline devi 15	Minutes Heartbeat confi Applies for all device (ce detection timeout: Seconds	guration in profile	*
5 Offline devi 15 Total Month	Minutes         Heartbeat confi         Applies for all device         ce detection timeout:         Seconds         Estimated dat	guration in profile a usage	Ţ
5 Offline devi 15 Total Month	Minutes Heartbeat confi Applies for all device ce detection timeout: Seconds Estimated dat hly data usage per device:	guration sin profile a usage 87.53 MB	*
5 Offline devi 15 Total Month Monthly dynar Monthly static	Minutes Heartbeat confi Applies for all device ice detection timeout: Seconds Estimated dat uly data usage per device: mic data usage per device:	guration in profile a usage 87.53 MB 14.83 MB	Ť
5 Offline devi 15 Total Month Monthly dynau Monthly static Monthly hotsp	Minutes Heartbeat confi Applies for all device ce detection timeout: Seconds Estimated dat ily data usage per device: :: data usage per device: :: data usage per device:	guration In profile a usage 87.53 MB 14.83 MB 2.93 KB	Ť
5 Offline devi 15 Total Month Monthly dynar Monthly static Monthly hotsp Monthly hotsp	Minutes Heartbeat confi Apples for all device ice detection timeout: Seconds Estimated dat ily data usage per device: data usage per device: ot data usage per device: ot data usage per device:	guration in profile a usage 87.53 MB 14.83 MB 2.93 KB 2.93 KB 2.637 MB	~

#### 2.3.3. Help guide

Help guide has two main subcategories – General guide and Add new device guide.

General guide will help you to understand main RMS functions and possibilities. If you want to learn how to Add new device to RMS system, you can use "Add new device" guide.

General guide Add new device	
Add new device	Ð
Close	

## 3. Management

In Management window it is possible to monitor and configure devices via RMS system. Management window consist of these tabs: Overview, Mobile, Device, Hardware, Hotspot, Monitoring, GPS, I/O, Groups.

	Overview Mobile		Device Hardware Hot		Hotspot	Monitoring	GPS	I/O	Groups			
0	Device - Monito	oring - Comma	ands - Config	uration • Alert •	Export •	View •						

Management Sub Menu description is shown below in the table:

	Field name	Explanation
Device		
	Add device	Add device to RMS system
	Add device list	Add device list to RMS system using CSV file
	Unregister	Unregister device from RMS system
Monitoring		
	Configuration	Monitoring update configuration
Commands		
	Update FW	Update router firmware ( <u>we strongly recommend to update</u> firmware version from RMS with keeping mobile settings only)
	Configuration	Configure selected routers LAN and mobile settings.
	Access	Configure the attainment of the devices which are behind the router
	Reboot	Reboot selected router
Configuration		
	Upload	Upload configuration to selected router.
	Download	Download configuration from selected router.
Alert		
	New alert	Configure new alert from device
	My alerts	Shows alerts from device
Export		
	Event logs	Download from selected device Event log file
	Troubleshoot	Download from selected device Troubleshoot package
View		
	Widget selection	Select which widget you want to see in window
	Table parameters	Select which parameter you want to see in the table

Router indication status:

	Field name	Explanation
	Online	Indicates that device now is connected to RMS system.
	Offline	Indicates that device now is disconnected from RMS system.
$\bigcirc$	Not registered	Indicates that device is added to RMS system, but device was never connected to it.



Actions column consists of four selections:

	Field name	Explanation
í	Device details	Via this you can reach detailed information about each device
	WebUI	If router is connected to the RMS system you can reach router's WebUI
$\geq$	CLI	Opens routers CLI window
C	Update	Force update routers information on RMS system

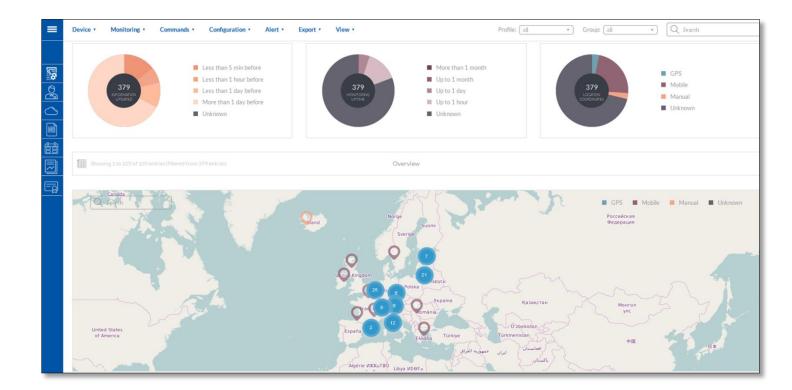
If you don't want to see table with all devices in Management tab, you can switch to "map view", where you will be able to see location of all your devices (if they are connected to the RMS and has GPS coordinates).

You can navigate from all devices table to map and vice versa by clicking these icons:



Switch from all device table to Map





### 3.1. Overview

Overview	Mobile Device	e Hardware	Hotspot	Monitoring	GPS I/O G	roups				
Device • Monit	coring • Commands •	Configuration •	Alert • Export •	View •			P	Profile: All * C	Sroup: All 🔹	Q Search
1 DEVICE STATE		<ul> <li>Online</li> <li>Offline</li> <li>Not monitored</li> <li>Not activated</li> </ul>		nro J	1 MARTIN	Less than 5 min before     Less than 1 hour before     Less than 1 day before     More than 1 day before     Unknown		1 An experience	<ul> <li>More than 1 month</li> <li>Up to 1 month</li> <li>Up to 1 day</li> <li>Up to 1 hour</li> <li>Unknown</li> </ul>	
Showing 1 to 1 of 1	entries				Overviev	v				
D 🗘 💿 Name D				Description		Group	MAC	Information Updated	Monitoring Uptime	Actions
• •					:44:29		00:1E:42:13:8D:1C	5 minutes ago	12 minutes	062

Via Overview -> Commands -> Access you can configure the attainment of the devices which are behind the router.

	Overv	riew	Mobile Devie	e Hardware	Hotspot	Monitoring	GPS I/O	Groups							
De	evice 1	•	Monitoring   Commands	Configuration •	Alert • Export	• View •							ofile: All *	Group: All *	Q Search
			1 AXX	<ul><li>Online</li><li>Offline</li><li>Not monitored</li><li>Not activated</li></ul>			1 INCOMPANY PRATECO	<ul> <li>Less than</li> <li>Less than</li> <li>Less than</li> <li>More than</li> <li>Unknown</li> </ul>	1 hour before 1 day before 1 day before					More than 1 month Up to 1 month Up to 1 day Up to 1 hour Unknown	
							Dev	ice access				>	×		
6		ving 1 to	1 of 1 entries		Name	External Port	Destination IP	Destination Port	Access without RMS login	Use custom basic-auth	Link				
					Camera	5000	192.168.1.10	80	4			Θ			
$\checkmark$	$\hat{}$	0	Name									$(\pm)$	Information Updated	Monitoring Uptime	Actio
								Submit					3 minutes ago		

Field name	Explanation
Enable	Enable/Disable all configured devices access.
Name	Name of the device access rule
Source Port	Match incoming traffic directed at the given destination port on this host
Destination IP	LAN IP of the device which is connected to the router
Destination Port	Redirect matched incoming traffic to the given port on the internal host
Access without authentication	Enable/Disable access without authentication.
Link	Specific link will be generated for each configured device

Link for device will be generated after you click *Submit. D*evices list will be shown in Device details window. You should press in device detail button for selected router and you will see:

If *Device access* table are not shown in the window, go to *View* and enable the checkbox for *Device access*.

$\overline{\sim}$	Alerts								
	Status cha	inge	2 hours ago						
	Status cha	inge	2 days ago						
	Status cha	nge	2 days ago						
	Status cha	inge	3 days ago						
	Status cha	inge	3 days ago						
		Device a	ccess						
	Web UI	10.8.32.16	proxy/index.php?q=4652- 57fe119699c64781826466	····					
	Test	192.168.1.110	proxy/index.php?q=4652- Test	····					

Information from devices which could be shown in overview tab is described below (you can select which information will be shown in *Overview -> View*):

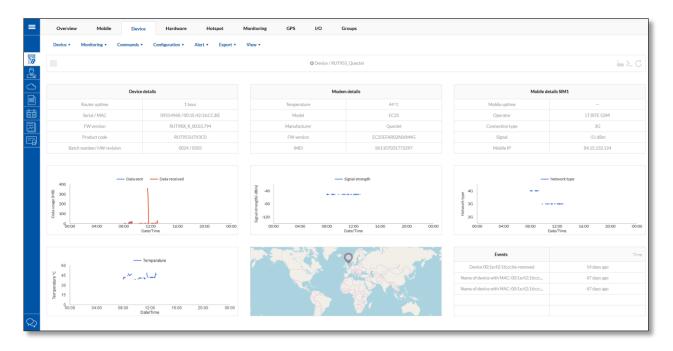
Field name	Explanation
Name	Router's name. After device is added LAN MAC is shown here. After successful router connection to RMS router code is also displayed in this field. You can rename router to have custom name.
Description	Router's description. By default this field displays router's serial number and time when it was added to RMS is shown in this field. Description can be changed by user.
Group	Group's name in which router is.
MAC	Router's LAN MAC address
Firmware	Shows the version of the firmware that is currently loaded in the router.
Router Uptime	Shows how long it has been since the router booted up. Reboots will reset this timer to 0.
Mobile Uptime	Shows how long router is connected to mobile network.
Information Updated	Shows when information was updated
Dynamic Parameters	Shows how often dynamic parameters should be updated. Dynamic parameters: SIMSTATE, PINSTATE, NETSTATE, SIGNAL, OPERATOR, OPERNUM, CONNSTATE, CONNTYPE, TEMP, RXCOUNTT, TXCOUNTT, RXCOUNTY, TXCOUNTY, FWVERSION, SIMSLOT, ROUTERUPTIME, CONNECTIONUPTIME, MOBILEIP, SENT, RECEIVED, WAN_STATE, WAN_IP, CELL_ID, MCC, MNC, LAC.
Modem Model	Router GSM modem's model
Static Parameters	Shows how often static parameters should be updated. Static parameters: IMEI, MODEL, MANUF, REVISION, IMSI, PRODUCTCODE, BATCHNUMBER, HARDWAREREVISION.
Modem IMEI	Router GSM modem's IMEI
Connection Type	Router's mobile connection type (2G / 3G / 4G)
Operator	Network operator to which router is connected
Product Code	Product code of the device
°C	Device's temperature
Serial	Serial number of the device
Signal	Current signal strength value
Network State	Router's GSM network status (Registered (home) / N/A)
PIN State	Shows router's SIM PIN state (READY / N/A)
SIM State	Shows router's SIM state (Inserted / N/A)



Modem FW	Router GSM modem's firmware version
Modem Manufacturer	Router GSM modem's manufacturer
Profile Name	Profile name to which router is assigned
Validity	Shows when profile to which router is assigned will expire.
SIM Slot	Shows which router's SIM slot is active (SIM 1 / SIM 2)
Operator number	Router network operator's MCCMNC code.
IP	VPN tunnel IP
Batch Number	Batch number used during device's manufacturing process
Hardware Revision	Hardware revision of the device
Bytes Sent	Shows how many bytes were sent via mobile data connection.
Bytes Received	Shows how many bytes were received via mobile data connection.
Hotspot Parameters	Router's Hotspot status
Monitoring Uptime	Shows how long router is connected to RMS since last restart.
WAN State	Router's WAN type (Wired / mobile).
WAN IP	Router's WAN IP
Cell ID	Cell ID of base transceiver station to which router is connected.
LAC	Location Area Code of base transceiver station to which router is connected.
MNC	Router network operator's Mobile Network Code.
MCC	Router network operator's Mobile Country code.
GPS Parameters	Shows how often GPS parameters should be updated
I/O Parameters	Shows how often I/O information should be updated

## 3.1.1. Device details

You can check various parameters of the device via Overview Tab. To check device parameters press "i" letter (  $^{(1)}$ ) in the action column.



## 3.2. Mobile

Information from devices which could be shown in Mobile tab is described below:

Overview	Mobile Device	Hardware Hotspot Monitoring	GPS I/O Groups							
Device • Moni	toring • Commands • Config	suration • Alert • Export • View •			Profile: All • Group: All • Q. Search					
1 Received	Ex An No Un	rrage v signal	1 Change tools Status	4G 3G 2G No connection Unknown		1 NEWOOD SER		<ul> <li>Home network</li> <li>Roaming</li> <li>Unknown</li> </ul>		
Showing 1 to 1 of :	Lentries		Mobile							
□ ⊚	Name	Description	Connection Type	Operator	Network State	SIM Slot	Bytes Sent	Bytes Reveived	Actions	
	RUT955_Quectel	s/n 09554968, added at 2017-10-11 10:30:02	3G	LT BITE GSM	registered (home)	SIM 1	12.7MB	693.6MB	() <b> </b> → ≻ C	

Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Network State	Router's GSM network status (Registered (home) / N/A)
Bytes Received	Shows how many bytes were received via mobile data connection
Bytes sent	Shows how many bytes were sent via mobile data connection
Connection Type	Router's mobile connection type (2G / 3G / 4G)
Mobile IP	Router's mobile WAN IP
Operator	Network operator to which router is connected
SIM Slot	Shows which router's SIM slot is active (SIM 1 / SIM 2)
Signal	Current signal strength value
SIM State	Shows router's SIM state (Inserted / N/A)
Cell ID	Cell ID of base transceiver station to which router is connected.
LAC	Location Area Code of base transceiver station to which router is connected.
MNC	Router network operator's Mobile Network Code.
MCC	Router network operator's Mobile Country code.

## 3.3. Device

Information from devices which could be shown in Device tab is described below:

	Overview	Mobile Device	Hardware Hotspot Monitoring	GPS I/O Groups					
09 <b>1</b>	Device • Moni	itoring • Commands •	Configuration • Alert • Export • View •			Profile: A	I • Grou	up: All •	Q Search
	1 Proc		Online     Offline     Not monitored     Not activated	1 RUT955		1 SSX		Excellent Average Low No signal Unknown	
	Showing 1 to 1 of	1 entries		Device					
	□ ^ ⊚	Name	Description	MAC	Serial	Product Code	Batch Number	Hardware Revision	Actions
	□ ⊕ ⊚	RUT955_Quectel	s/n 09554968, added at 2017-10-11 10:30:02	00:1E:42:16:CC:BE	09554968	RUT955H7V3C0	0024	0505	0 <u>-</u> > C

Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
MAC	Router's LAN MAC address
Batch Number	Batch number used during device's manufacturing process
Hardware Revision	Hardware revision of the device
Product Code	Product code of the device
Serial	Serial number of the device

## 3.4. Hardware

Information from devices which could be shown in Hardware tab is described below:

	Overview Mobile Device	Hardware Hotspot	Monitoring	GPS	I/O	Groups					
0	Device • Monitoring • Commands •	Configuration · Alert · Export	· View ·				Profile:		Group: All	* Q Search	
0	Showing 1 to 1 of 1 entries			Hard	ware						
	□ 🗘 ⊚ Name		Description			τ	Modem IMEI	Modem Model	Modem FW	Modem Manufacturer	Actions
$\overline{\square}$	□ 🗘 ⑧ RUT955	s/n 12345	678 added at 2016-06-07 14	4:05:34		42.5	12345678987654321	12345678	11.01.00	Huawei	$(\mathbf{i} \models \boldsymbol{\succ} \mathbf{C}$

Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Modem Model	Router GSM modem's model
Modem FW	Router GSM modem's firmware version
Modem Manufacturer	Router GSM modem's manufacturer
Modem IMEI	Router GSM modem's IMEI
°C	Device modem's temperature

## 3.5. Hotspot

Hotspot parameters can be monitored only then Hotspot is enabled on your router and when in RMS Monitoring – "Hotspot monitoring" is enabled (more about it you can find in section 3.6 Monitoring)

Information from devices which could be shown in Hotspot tab is described below:

Overview	Mobile Device	Hardware Hotspot	Monitoring	GPS I/O	Groups				
 View *						Profile: All	* Group: All	* Q Search	
Showing 1 to 1 of	1 entries			Hotspot					
□ ≎ ⊚	Name		Description	Hotspots state	Hotspots SSID	Hotspot IP address	Users Online	Information updated	Actions
	RUT955	s/n 12345678 a	dded at 2016-06-07 14:05:	34 Enabled	Teltonika_Test	192.168.2.254/24	0	8s ago	$(i) \models \succ \subseteq C$

Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Users online	Shows how much users is connected to router's hotspot
Hotspot state	Shows router's hotspot state (Enabled / Disabled)
Information Updated	Shows when information was updated
Hotspots SSID	Shows router's hotspot SSID
Hotspots IP address	Shows router's Hotspot IP address

To configure Hotspot from RMS press "i" letter (  $\bigcirc$  ) in the action column.

	Overv	iew Mobile	Device Hardware	Hotspot Monitoring	GPS	I/O Groups	
<b>1</b>	View '	Commands •					
×   }					G Hotspot / 00:1e:4	42:13:33:30	
	$\square$	Hotspot SSID		Hotspot IP address		Users online	Information updated
	$\square$	Hotspot		192.168.2.254/24		0	2016-06-07 16:11:05

Via View Tab you can check created Hotspot users credentials, and see which users are connected.

Also via Commands Tab you can add new Hotspot User (you can add new user only then Hotspot type is "without radius").

## 3.6. Monitoring

Information from devices which could be shown in Monitoring tab is described below:

D	evice •	Monitoring   Commands	Configuration   Alert   Export   View	•			Profile: Al	• •	Group: All *	Q Search
6	Showing	1 to 1 of 1 entries		М	onitoring					
	٢	Name	Description	Dynamic Parameters	Static Parameters	Hotspot Parameters	Profile Name	Validity	Information Updated	Actions
		RUT955_Quectel	s/n 09554968, added at 2017-10-11 10:	Every 5 minutes	Every 15 days	Not monitored	Testt	Unlimited	3 minutes ago	OLLC

Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Dynamic Parameters	Shows how often dynamic parameters should be updated. Dynamic parameters: SIMSTATE, PINSTATE, NETSTATE, SIGNAL, OPERATOR, OPERNUM, CONNSTATE, CONNTYPE, TEMP, RXCOUNTT, TXCOUNTT, RXCOUNTY, TXCOUNTY, FWVERSION, SIMSLOT, ROUTERUPTIME, CONNECTIONUPTIME, MOBILEIP, SENT, RECEIVED, WAN_STATE, WAN_IP, CELL_ID, MCC, MNC, LAC.
Static Parameters	Shows how often static parameters should be updated. Static parameters: IMEI, MODEL, MANUF, REVISION, IMSI, PRODUCTCODE, BATCHNUMBER, HARDWAREREVISION.

Hotspot Parameters	Shows how often hotspot parameters should be updated.
Profile Name	Profile name to which router is assigned
Validity	Shows profile expiring date
Information Updated	Shows when I/O information was updated.
GPS Parameters	Shows how often GPS parameters should be updated
I/O Parameters	Shows how often I/O information should be updated

Via *Management -> Monitoring -> Configuration* you can configure various monitoring settings. Parameters update period applies for selected devices only.

Dynamic para	meters	$\square$	
5	Minutes		*
Static parame	ters	$\overline{\checkmark}$	
15	Days		×
Hotspot paran	neters	$\checkmark$	
1	Minutes		٠
GPS paramete	ers	$\square$	
5	Minutes		
Input/Output J	parameters		
5	Minutes		
	Heartbeat cont		
Offline device			
Offline device	Heartbeat cont Applies for all devic		
	Heartbeat cont Applies for all device	es în profile	*
15	Heartbeat con Applies for all device detection timeout: Seconds	es în profile	*
15 Total Monthly	Heartbeat cont Applies for all device detection timeout: Seconds Estimated dat	es în profile	v
15 Total Monthly Monthly dynamic	Heartbeat con Applies for all device detection timeout: Seconds Estimated da	ta usage 192.99 MB	v
15 Total Monthly Monthly dynamic Monthly static da	Heartbeat con Applies for all device detection timeout: Seconds Estimated da data usage per device: data usage per device:	ta usage 192.99 MB	•
15 Total Monthly Monthly dynamic Monthly static da Monthly hotspot	Heartbeat cont Applies for all device detection timeout: Seconds Estimated da data usage per device: c data usage per device: ata usage per device:	ta usage 192.99 MB 1483 MB 2.93 KB	•
15 Total Monthly Monthly dynamic Monthly static da Monthly hotspot Monthly heartbe	Heartbeat cont Applies for all device detection timeout: Seconds Estimated da data usage per device: data usage per device: data usage per device: data usage per device:	es in profile ta usage 192.99 MB 1483 MB 293 KB 131.84 MB	•
15 Total Monthly Monthly dynamic Monthly static da Monthly hotspot Monthly heartbe. Monthly GPS dat	Heartbeat cont Applies for all device detection timeout: Seconds Estimated da data usage per device: data usage per device: data usage per device: data usage per device: data usage per device: at data usage per device:	es in profile ta usage 192.99 MB 14.83 MB 2.93 KB 131.84 MB 26.7 MB	•

### 3.7. **GPS**

To see one device location displayed on map press (  $^{(i)}$  ) icon in the "Actions" column.

Device's position in map is displayed in this order:

1. If device location is set up manually, then manual location is shown even if GPS positioning is enabled on device.

2. GPS positioning.

3. If device location is NOT set up manually and its GPS is NOT enabled but device has active SIM card, then device's location is determined by operator's cell tower location.

Information from devices which could be shown in GPS tab is described below:

## TELTONIKA

8		ing 1 to 2	of 2 entries			GPS						
$\checkmark$	$\hat{\mathbf{v}}$	٢	Name	Description	GPS Enabled	Fix Status	Latitude	Longtitude	Accuracy	Information Updated	GPS Parameters	Actions
	$\Diamond$		RUT950	s/n 0528ó	Notavailable	Mobile	54.6685	25.2561	3000	1 minute	Not available	$\bigcirc \sqsubseteq \succ \bigcirc \bigcirc$
$\checkmark$	$\hat{\mathbf{v}}$	٢	RUT955	s/n 0ó95ó	Yes	GPS	0.000000	0.000000	0	1 minute	Every 5 minutes	$\bigcirc \vdash \succ \bigcirc$

Field name	Explanation					
Name	Router's name.					
Description	Router's description. Description can be changed by user.					
GPS Enabled	Shows if GPS is enabled on router					
Fix Status	Shows which method is used detect router position (GPS / Mobile / Manual)					
Satellites	Shows how many satellites does the router see					
Latitude	Router's last known latitude					
Longitude	Router's last known longitude					
Altitude	Router's last known altitude					
Speed	Router's last known speed from GPS					
Course	Router's last known course					
GPS Time	Router's last known GPS time					
Accuracy	Shows mobile position detection accuracy in meters					
Information Updated	Shows when GPS information was updated.					
GPS Parameters	Shows how often GPS parameters should be updated					

## 3.8. I/O

If device which is added to the RMS system has I/O you can monitor it's information through the RMS Tab "I/O". First you have to enable I/O monitoring via *Management -> I/O -> Monitoring -> Configuration*.

c	Overview Mobile Device Hardware Hotspot Monitoring GPS 1/0 Groups												
Device	ce · Monitoring · Commands · Configuration · Alert · Export · View · Profile: All · Group: All ·												
Showing 1 to 25 of 100 entries VO									« »				
	$\hat{\cdot}$	٢	Name	Description	Digital Input	Digital Isolated Input	Analog Input	Open Collector Output	Relay Output	Information Updated	I/O Parameters	Actions	
	$\Diamond$		12:34:56:78:91:92	s/n 12345678 added at 2016-06	Open	Low level	0.203V	Inactive (High level)	Inactive (Contacts open)	1 second ago	Every 5 minutes	$\bigcirc \sqsubseteq \succ \bigcirc$	

Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Digital Input	Shows digital input's state (Open / low level / high level)
Digital Isolated Input	Shows digital isolated input's state (Open / low level / high level)
Analog Input	Router's analog input voltage
Open Collector Output	Open collector's output state (Active / Inactive)
Relay Output	Relay's output (Active / Inactive)
Last Update	Shows when I/O information was updated.
I/O Parameters	Shows how often I/O information should be updated

## 3.9. Groups

To create new group go to *Management -> Groups* window and press *Group -> Add New* button.

	Overview	Mobile	Device	Hardware	Hotspot	Monitoring	GPS	I/O	Groups	
Gr	oup • Monit	oring • Comma	nds • Config	uration • Alert •	Export •	View •				Q Search
Add New										
	Delete 1 to 1 of 1 entries (filtered from 21 entries)					Groups				
	٦	Nam	e			Description			Devices	Created
	_									

Enter group's name, description and press "Create group" button.

Creategroup	
Create group	

In order to add devices to group go to *Management -> Overview* window. In the *Group* column select to which group device should be added.

De	evice •	Monitoring  Commands	Configuration •	Alert • Export •	View •					Ρ	rofile: All * G	iroup: All *	Q Search
		1 SVCS	<ul><li>Online</li><li>Offline</li><li>Not monitored</li><li>Not activated</li></ul>			1 NCOMMIDN UPDATED		Less than 5 min before     Less than 1 hour before     Less than 1 day before     More than 1 day before     Unknown			1 NICOM	<ul> <li>More than 1 month</li> <li>Up to 1 month</li> <li>Up to 1 day</li> <li>Up to 1 hour</li> <li>Unknown</li> </ul>	
6	Showing	1 to 1 of 1 entries					Overview						
🗹 🌀 Name De				Description	Pescription Group			MAC	Information Updated	Monitoring Uptime	Action		
52		(a)         RUT955_Quectel         s/n 09554968, added at 20				10:30:02 None 🔻 0			00:1E:42:16:CC:BE	9 minutes ago	6 minutes	062	

Information from devices which could be shown in Group tab is described below:



Field name	Explanation
Name	Name of the group.
Description	Group's description. Description can be changed by user.
Profile	Profile which created this group.
Devices	Shows total and currently online devices
Created	Date when the group was created

Then routers are assigned to the group you can change configuration at the same time of all routers which are in the same group.

## 4. Users

Every User in RMS has his role. For example, if you are logged as Profile\_1 user (User\_1) you have three possibilities how to create new user credentials:

- 1. Create new User it will be assigned to your profile (Profile\_1). Users on the same profile have the same rights. Profile\_1 Users can manage End Users and Profile\_2 and Profile\_3
- 2. Create new Profile this profile will be in second level. Profile\_2 or Profile\_3 users will be able to see their own devices and other users on the same profile. These profile users can only create new Users or End Clients (they don't have possibility to create new Profile).
- 3. Create End Client End clients are unable to create new users or profiles. They can only see and manage devices on their profile.

#### Profile\_1 and User\_1 created by Teltonika

Users, who are in this profile ("Profile\_1") can see all devices. End Clients on this profile can see only it's own and Profile\_1 devices.

#### Profile\_2 and User\_2 created by Profile\_1

Users, who are in this profile ("Profile\_2") can see devices only from this profile.

They can only create new Users and End Clients, doesn't have possibility to create new profile.

#### Profile\_3 and User\_3 created by Profile\_1

Users, who are in this profile ("Profile\_3") can see devices only from this profile.

They can only create new Users and End Clients, doesn't have possibility to create new profile.

In order to create user, you first need to create user profile. That can be done in Users -> Profiles window by pressing Add New button

After creating Profile, You can create User. To create User press *Add New* button in Users tab. Select Profile, to which this user will be attached to, select user role, fill in username and E-mail lines. Press "Create user" button.

## 4.1. Users

Information about users which could be shown in Users tab is described below:

=		<b>TELTONIKA</b>											
	Us	Users Profiles											
8	User	Q. Search											
	S												
Ē		Username	Name	Email	Role	Profile	Created By Profile	Created By User	Registered				
		RMSTestAccount	Test	gustaitis.vytauta	Administrator	Testt	admin	admin	2017-09-08 15:22:38				

Field name	Explanation
User name	User's username
Name	User's description. Name can be changed by user.
E-mail	User's E-mail
Role	User's role (End client or Administrator)
Profile	Profile to which user is assigned to
Created By Profile	Shows by which RMS profile this user was created
Created By Users	Shows which RMS user created this user
Registered	Shows when user was created

Creating new user on RMS system:

Profile:Profile's name to which user will<br/>be registeredRole:User's role. It can be<br/>Administrator or End ClientUser name:User's name will be used to<br/>login to RMSE-mail:User's e-mail address. Primary<br/>password of the account will be<br/>sent to this e-mail. Using email

you can recovery your account.

Create user	×
Profile:	
Test1 *	
Role:	
Administrator *	
User name:	
UserName	
E-mail:	
email@address.com	
Create user	

## 4.2. Profiles

≡	<b>~~~</b> 7	<b>□</b> 2018 02 28 ₩ ↓	RMSTestAccount •									
	Us	ers Pro	files									
	Prof	ile • View •									Q. Search	
<u>S</u>												
$\bigcirc$	Showing 1 to 1 of 1 entries Profiles (% >>											
Ê		Name		Created profiles	Created users	Devices	Licenses left	Registered	Created By Profile	Created By User	License coverage	
$\square$		Testt		0	1	1	5	2017-09-08	admin	admin	2018-02-28	
<u> </u>												

Field name	Explanation
Name	Profile's name
Created profiles	Shows how much profiles this profile created
Can created profiles	Shows how much profiles this profile can create
Created users	Shows how much users this profile created
Can created users	Shows how much users this profile can create
Devices	Shows how much devices this profile added
Can Create devices	Shows how much devices this profile can add
Registered	Shows when this profiles was created
License coverage	This date is calculated from your available licenses and monitored devices.

Creating new profile on RMS system:

Company profile	New Profile's	×
name:	name. It will be used for easier management	Create profile Company profile name:
Company E-mail:	purposes E-mail for which RMS confirmation will be sent	Company E-mail:
		Create profile

\*Information about "Licenses pool" can be found in page 31.

## 5. Creating RMS profile for other clients

To be able to administrate other profile accounts, you need to create "sub profile" after your own profile. This will allow you to move RMS licenses from you main profile to "sub profile". To create profile and user for your client please see chapter <u>4.1</u> for creating user and chapter <u>4.2</u> for client.

	ers Profiles								
Pro	ile • View •								
	ihowing 1 to 2 of 2 entries			Pr	ofiles				
	Name	Created profiles	Created users	Devices	Licenses left	Registered	Created By Profile	Created By User	License
		1	1	2	5	2017-09-08	admin	admin	2017-12-
	Testt								

#### 5.1 Usage scenario

For example you want to sell RMS licenses from your RMS licenses pool to other client, first you need to create "sub profile and user" for your client after your own RMS profile so you could administrate it. After creating profile and user for your client you can move RMS licenses to his profile, and client will be able to use them using that RMS profile which you just created. For more information about moving RMS licenses please see chapter <u>11</u>.

#### 6. Fota

FOTA stands for Firmware-Over-The-Air. This feature allows you to conveniently update routers firmware version or upload config file remotely. By default, new devices are added to the Fota when Users add router to the RMS system. When user adds new router only to Fota it by default doesn't register to the RMS system.

Device information which can be shown in *Fota* tab is described below:

	nmand • View •						Profile: All	*) Group: All	*) Q Search
2							Profile: All	* Group: All	* Q Search
2									
Showing 1 to 1 of	f 1 entries				OTA				
Name Name	Description	Group	MAC	Serial	FW on server	Config on server	Profile	Status	Authorization
RUT955_Qued	ct s/n 09554968, added at 2017	None	00:1E:42:16:CC:BE	09554968	RUT9XX_R_00.03.772	-	Testt	$\oslash$	

## TELTONIKA

Field name	Explanation
Name	By default it's routers code and MAC address. Can be changed by user.
Description	By default it's routers s/n, and date and time then router was added to the Remote Management System. Description can be changed by user.
Group	It can be None or group name (if router was added to the group)
MAC	Routers MAC (LAN) address
Serial	Routers serial number
FW on server	Firmware version which is available on server
Config on server	Config file which is available on server
Profile	Profile Name which owns the router
Status	Router status. Indicates status of router firmware or config upgrade.
Authorization	Authorization for <i>Fota</i> . Logins must be used in the router <i>System -&gt; Firmware -&gt; FOTA -&gt; Server Settings</i>

## 6.1. Device Tab

Device Tab is for Add new device/devices list or to unregister existing devices from *Fota* list. Devices, which are added to Fota list, will have possibility to upgrade firmware/config from Fota.

		<b>NIKA</b>
	Fota	
	Device · Com	mand •
	Add device	
$\bigcirc$	Add device list Unregister	of 3 entries (filtered from 68 entries)
		Name

#### 6.1.1. Add device

Profile	Profile's name to which device will be added
Use username and password	Enable/Disable. If it is enabled user name and password must be used in the router System -> Firmware -> FOTA -> Server Settings.
User name	User name for Fota authorization
Password	Password for Fota authorization
Serial number	Router's, which you want to add to Fota, serial number

Add device							
TestZivile			٣				
Use username and password	$\checkmark$						
User name:							
YourUserName							
Password:							

MAC address Router's, which you want to add to Fota, (LAN) MAC address (LAN)

#### 6.1.2. Add device list

**Profile** Profile name to which device list will be added

Use username Enable/Disable. If it is enabled user and password name and password must be used in the router System -> Firmware -> FOTA -> Server Settings.

User name User name for Fota authorization

**Password** Password for Fota authorization

Upload CVS Upload file in CSV format file

custom

First	You have to specify which parameter in
parameter	your uploaded CSV file goes first: Serial
	number or MAC address (LAN)
Separation	Separation symbol between values in
symbol	CSV file. It can be "," " <space>" ";" or</space>

Add device list	
TestZivile	Ŧ
Use username and password	
User name:	
YourUserName	
Password:	
Upload CSV file:	
First parameter:	6
Serial number	Ŧ
Separation symbol:	6
,	Ŧ
Add device list	

#### 6.1.3. Unregister

If you want to unregister device from *Fota*, select the device and in Device tab chose Unregister. Device will be unregistered only from *Fota* list, it will be still connected to the RMS.

	TELTO	DNIK/	1				
F	Fota						
Device	e • Com	imand •					
Ado	Add device						
Add	Add device list of 2 entries (filtered from 87 entries)						
Uni	register						
	Nam	ne	Description	Group			
	12:34:56:7	78:91:92	s/n 12345678 , added at 2016-05-30 08:46:35	None			
		78:91:93	s/n 87654321 , added at 2016-05-30 13:39:47	None			

#### 6.2. Command Tab

Command Tab is for assigning firmware or configuration files to selected devices. Also you can change/add Authorization for FOTA. These authorization credentials must be used in the router: System -> Firmware -> FOTA ->

Server Settings. If you want to assign firmware/config to selected devices, first you must upload files to RMS system (more about it you can find in section 6. Files)



#### 6.2.1. Select FW

After clicking "Select", firmware will be assigned to the selected routers. Now it will be possible to update router's firmware from server via router's WebUI.

Select firmware				
Name	Size	Action		
RUT9XX_R_00.02.330_WEBUI.bin	8.875M	Select		

#### 6.2.2. Select Config

After clicking "Select", config will be assigned to the selected routers. Now it will be possible to update router's firmware from server via router's WebUI.

Select config							
Name	Size	Action					
backup-Teltonika-RUT950.com- 2016-05-11.tar.gz	22.0723k	Select					

#### 6.2.3. Authorization

These settings is used for authorization with *Fota*. Credentials must be used in the router: *System -> Firmware -> FOTA -> Server Settings*.

Authorization settings								
Use username and password	V							
User name:								
YourUserName								
Password:								
Add device								
Add	luevice							

### 7. Files

Files tab provides ability to upload Firmware/Config files to RMS system. From RMS system uploaded Firmware/Config files can be used to upgrade devices which are added to the *Fota* device list.

Firmware/Config files which are uploaded via Files Tab also can be used via *Management -> Overview ->* Commands -> Update FW.

## 7.1 FW files

In FW files tab you can upload new firmware version file or delete existing one. FW file table provides information about firmware uploaded to RMS system.

≡	<b><i>TELTO</i></b>	DNIKA		Ω Â
	FW files	Config files		
<b>6</b>	File *			
0 B		Firmware name	Description	File uploaded
		RUT9XX_R_00.02.330_WEBUI.bin		2016-05-09 08:29:09

Field name	Explanation
Firmware name	Name of firmware file which is uploaded to the server
Description	Firmware file description
File uploaded	Date and time then firmware file was uploaded

## 7.2. Config files

In Config file (backup file from router) tab you can upload new configuration file or delete existing one. Config file table provides information about config files uploaded to RMS system.

	<i>«</i>	TELTO	NIKA			A M
	F)	W files	Config files			
<b>.</b>	File 1					
				Config name	Description	File uploaded
				backup-Teltonika-RUT950.com-2016-05-11.tar.gz		2016-05-11 08:07:57

Field name	Explanation
Config Name	Name of config file which is uploaded to the server
Description	Config file description
File uploaded	Date and time then Config file was uploaded to the Remote Management System

## 8. Events

"All events" tab includes all events which are related with Device/Profile/User/System events. Events tab can be used for easier RMS system management purpose, because it shows all RMS system events, their type, event time of occurrence, device MAC, IP addresses, related Profiles and Users.

	All events Dev	ice events Profile eve	ents User events System events					
8	View •						Profi	le: All • Q Search
	Showing 1 to 10 of 64 entries All events							
	ID	Event type	Event	MAC	IP	Profile	User	Date
$\overline{\sim}$	252877	System	Successful login	-	212.59.13.226	Testt	2370	2017-10-25 14:06:14
	252292	Profile	Profile testas123456 added	-	-	Testt	2370	2017-10-24 08:21:06
	252291	Profile	Profile testas123456 couldn\'t be added	-	-	Testt	2370	2017-10-24 08:20:11
	050000	Llear	Liene usereamen 102 adulari			Toett	0970	2017 10 24 09:10:22

Field name	Explanation
ID	Events ID number
Event type	Events type. (Can be Device/Profile/User/System events)
Event	Events description
MAC	Routers MAC address (LAN)
IP	Routers WAN IP address
Profile	Profile name
User	User name which owns the router
Date	Events date and time.

#### 8.1. Device events

Displays all device events like: added devices, changed monitoring configuration or changed description/name of the device.

	All events Devic	ce events Profile events	s User events System events						
	View •						Profi	le: All • Q Search	
	Showing 1 to 10 of 14 entries Device events 《 》								
	ID	Event type	Event	MAC	IP	Profile	User	Date	
2	238935	Device	Device added to Testt	00:1E:42:13:8D:1C	-	Testt	2370	2017-09-08 15:44:29	
 	252835	Device	Device 00:1e:42:14:3c:c0 removed	00:1e:42:14:3c:c0	_	Testt	2370	2017-10-25 13:14:35	
<u></u>	252834	Device	Device 00:1e:42:13:8d:1c removed	00:1e:42:13:8d:1c	-	Testt	2370	2017-10-25 13:14:35	

## 8.2. Profile events

Displays all profile events like: added/deleted profiles and groups.

	All events Dev	ice events Profile ever	ts User events System events						
	View •						Profil	e: All v Q Search	
0	Showing 1 to 10 of 12 entries Profile events ( )								
	ID	Event type	Event	MAC	IP	Profile	User	Date	
	250677	Profile	Profile Vyciokas added	-	-	Testt	2370	2017-10-18 14:22:59	
	252849	Profile	Group Your_Groupe added	-	-	Testt	2370	2017-10-25 13:36:15	
	252847	Profile	Group Testavimas added	-	_	Testt	2370	2017-10-25 13:35:04	

## 8.3. User events

Display all user events like: added/deleted users, changed users roles.

	All events Dev	ice events Profile even	nts User events System events					
<b>.</b>	View •						Profil	e: All v Q Search
<u>_</u>	Showing 1 to 6 of 6 entries			User events				
$\bigcirc$	Showing 1 to 8 of 6 entries			User events				
<b>:</b>	ID	Event type	Event	MAC	IP	Profile	User	Date
2	252063	User	User username123 added	-	-	Testt	2370	2017-10-23 14:55:45
 	252287	User	User username123 deleted	-	-	Testt	2370	2017-10-24 08:18:55
-22	252288	User	User username123 added	-	-	Testt	2370	2017-10-24 08:19:10

## 8.4. System events

Display all user events like: successful/unsuccessful users logins to RMS system.

	All events Dev	ice events Profile eve	ents User events	System events					
	View •							Profi	le: All • Q Search
	Showing 1 to 10 of 32 ent	Showing 1 to 10 of 32 entries System events ( )							
Ê	ID	Event type		Event	MAC	IP	Profile	User	Date
	238924	System		Successful login	-	212.59.13.226	Testt	2370	2017-09-08 15:24:31
	248343	System		Successful login	-	212.59.13.226	Testt	2370	2017-10-11 10:29:28
	250676	System		Successful login	-	212.59.13.226	Testt	2370	2017-10-18 14:22:25

## 9. Reports

Report tab are dedicated for generating new and viewing existing reports.

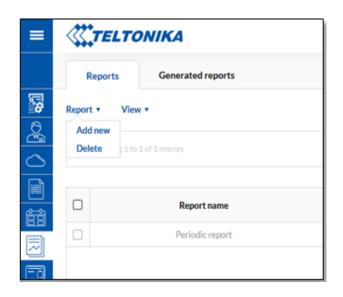
## 9.1. Reports

Via Reports Tab you can generate new report or delete existing one.

=	~~	TELTO	NIKA						RMSTestAccount 🔻
	R	Reports	Generated reports						
	Rep	port • Vi	ew •						Q Search
		Showing 1 to 1	of 1 entries	Reports					« »
÷			Report name	Description	Туре	Apply to	Parameters	Date	Actions
$\overline{\sim}$			Report	Device Report	single	All devices	1	2017-10-25 14:20:51	00

Field name	Explanation
Report name	Name of the report
Description	Description of the report(used only for easier management only)
Туре	Report type (Single/Periodic)
Apply to	Indicates to which devices report applies. It can be: All devices/Device Group/Selected devices
Parameters	Indicates how many report parameters are used in the report
Date	Date when report was created
Actions	You can view your generated report via PDF viewer or in the RMS system

Then you want to generate new report click *Report* -> *Add new* and fill below described form. Click "Save" and new report will be generated.



#### 9.1.1. Add new Report

Name Report's name

1 (unite	Report 5 Ha	inc		
Description	Report's description – will be use only for easier management purposes			
Report Type	Single (one	time)/Periodic		
Period	Last day/we	eek/month or custom		
Apply for	All devices/Device group/Select devices			
Send report information email	Then periodic report will be generated it will be send to specified email address automatically			
Select report parameters	Parameters which can be add to the report:			
	System:	-Router uptime -Temperature		
	Mobile:	<ul> <li>Connection uptime</li> <li>Connection type</li> <li>Operator</li> <li>Data usage</li> </ul>		
	Network:	-Signal strength		

Name:	
Report_1	
Description:	
Report_1	
Report type:	
Periodic	
Period:	
Daily	
Apply for:	
All devices	
Send report information email:	
Select report parameters:	
7 parameters selected	~
Save	



Actions column in the Reports Tab is used for existing reports preview.

=	<b>TELTONIKA</b>							RMSTestAccount •
	Reports Generate	ed reports						
6	Report • View •							Q Search
0	Showing 1 to 1 of 1 entries		Reports					
Ê		Report name	Description	Туре	Apply to	Parameters	Date	Actions
~		Report	Device Report	single	All devices	1	2017-10-25 14:20:51	00 🖪

If you added all seven parameters to be generated in your report, you will be able to see information like this:

Report • View •													
							© Reports						
Report: Report (Device Report) For: All devices Date generated: 2017-1 Report period: day (2013	)-25 14:32:37 -10-24 14:32:37 to 2	017-10-25 14:3	2:37)										
	s	Signal					Connection	uptime			Temperatu	re	
Minimum signal	-51 dBm	(	00:1E:42:16:CC:B	E		Connection uptime	7h, 25m	.14s 00:1E:42:1	6:CC:BE	Minimum tempera	iture 39°	C 00:1E	:42:16:CC:BE
Maximum signal	-51 dBm	(	00:1E:42:16:CC:B	E						Maximum tempera	ature 49 °	C 00:1E	:42:16:CC:BE
Average signal	-51 dBm	Calcula	ted from selected	devices			Routeru	ptime		Average tempera	ture 44.1	°C	
		ta usage			F	Router uptime	7h, 26m, 28s	00:1E:42:16	CC:BE		Operator		
		ta usage								· · · · · · · · · · · · · · · · · · ·			
Tota			877.66 MB				Connectio	in type		LT	BITE GSM		100%
Sent 18.25 MB			LTE		100%								
Receiv	ed.		859.41 MB										
						Device	list						
	MAC	Serial	Total data	Sent	Received	Operator	Connection type	Maximum temperature	Minimum temperature	Router uptime	Connection uptime	Maximum signal	Minimum sig
Name													

## 9.2. Generated Reports

All reports which was created with Periodic Report Type will be generated every Day/Week/Month/Custom date. New automatically generated report can be found in Generated Reports Tab. Information about report which can be shown in Generated Reports is described below:

Report •	View •					Q	Search
Show	ing 1 to 9 of 9 entries		Generated repo	orts			
	Name	Description	Report name	Period	Time	Apply to	Actions
			Periodic report	daily	2016-08-02 09:53:48	All devices	() A
			Periodic report	daily	2016-08-03 08:31:01	All devices	i 🖻
			Periodic report	daily	2016-08-04 09:16:57	All devices	i 🖻
			Periodic report	daily	2016-08-05 09:56:11	All devices	() P
			Periodic report	daily	2016-08-08 13:29:01	All devices	() P
			Periodic report	daily	2016-08-09 08:14:37	All devices	(i) 🏳
			Periodic report	daily	2016-08-10 10:44:50	All devices	() P
			Periodic report	daily	2016-08-11 00:00:01	All devices	i 🖪
			Periodic report	daily	2016-08-12 00:00:04	All devices	(i) 🛃

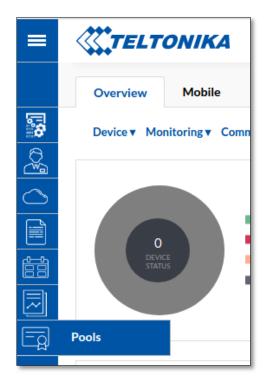
Field name	Explanation
Name	Automatically generated report name. Can be changed by user.
Description	Report description. Can be changed by user
Report name	Automatically generated report name. Can be changed by user.
Period	For which time period report was generated
Time	Date and time then report was generated
Apply to	Report apply to all devices/device group/selected devices
Actions	Reports preview

## **10.Licenses Pool**

Once you login in to RMS, you will see two new elements: license pools icon, alongside your user name:



And **Pools** menu selection on left and on the right.



Both buttons will redirect you to pool **Summary** window. There are three tabs which are explained further in this document.

In **Summary** tab there is only brief information about your licenses, their types, devices that are monitored, total number of devices you have added to RMS and also the estimated date of your license coverage.

=				2018 🖂 🛆 RMSTe
	Summary License pools Devices			
2	Paid licenses	<b>Free licenses</b>	Monitored devices	
	7 / 12	0 /0	<b>1</b> /1	
	License coverage			
	2018-02-28			

Field name	Explanation
Paid licenses	Number of licenses you have used and total number over all your pools.
Free licenses	Number of free licenses you using and how many you have in total.
Monitored devices	Number of monitored devices and all your devices in RMS.
License coverage	This date is calculated from your available licenses and monitored devices. i.e. you have 10 licenses and 5 monitored devices, you will see date 2 month from todays date, because it means you have enough licenses to cover two months

In the **License pools** tab you can see information about the license pools you have, you can have more than one license pool and you will see their information in this tab.

=								
	Summary	License pools	Devices					
5	View •							Q Search
	Showing 1 to 1 of 1 entries License pools							
		Pool name	Date acquired	Number of licenses	Used licenses	Reserved	Available licenses	Actions
<u>iii</u>								
		pool12-20170908	2017-09-08	12	7	0	5	<b>B</b>

Field name	Explanation
Pool name	Unique pool name to identify your license pools.
Date acquired	The date when you have bought license pool.
Number of licenses	The number of licenses you have bought with this pool.
Used licenses	The number of licenses you have used from this pool.
Reserved	The number of licenses that are reserved and will be taken from this pool at the beginning of the next month.
Available Licenses	The number of available licenses.
Actions	This button will generate information about all actions which are related to this pool (Under construction)

In **Devices** tab you can see summarized graphs informing you about your devices status that are in the RMS. There you can manually turn on or off device monitoring, track what type of license they are using.

	TEL	ΤΟΝΙΚΑ			2018 02 28		ISTestAccou
Su	mmary	License pools De	evices				
Vie	ew▼ Mo	onitoring <b>v</b>				Q	Search
		9 Not more Not more	,				
	Showing	1 to 9 of 9 entries (filtered from 1	197 entries) Överview				
	Showing	1 to 9 of 9 entries (filtered from 1 Name	197 entries) Overview Description	Status	License type	Monitoring	Actio
				Status Monitored	License type Free	Monitoring	
	٢	Name	Description				Actio
	© 0	Name	Description s/n 11111111, added at 2017-07-31 13:18:02	Monitored	Free	ON	Actio
	© ©	Name nestebimas stebimas	Description s/n 11111111, added at 2017-07-31 13:18:02 s/n 11111112, added at 2017-07-31 13:18:02	Monitored Monitored	Free Paid		Actio
	<ul> <li>(a)</li> <li>(b)</li> <li>(c)</li> <li>(c)</li></ul>	Name nestebimas stebimas online	Description s/n 11111111, added at 2017-07-31 13:18:02 s/n 11111112, added at 2017-07-31 13:18:02 s/n 1212125555, added at 2017-08-11 10:23:36	Monitored Monitored Monitored	Free Paid Free		Actio



Field name	Explanation
Name	The name of device
Description	Description of device
Status	Status of device. "Monitored" - data from device is being recorded to RMS database. "Not monitored" – data from device is NOT being recorded
License type	The type of license device has. It comes in three forms: "" – the device is not using any license (so it is not monitored) "Paid" – device is using paid license from one of your pools. "Free" – device is using free license and it will expire next month.
Monitoring	In this column you can manually turn on or off collecting device information. If device is not using any license, once you click on, one license number will be taken from your license pool.
Actions	This button will generate license usage information (Under constructuion)

You do not need to turn on monitoring for your devices one by one, you can simply select devices by checking the check boxes on the left, then choosing menu item (Img. 6) **Monitoring**->**Turn on/Turn off**.

Summary	License pools	Devices
View▼ Mon	itoring <b>v</b>	
	Turn on	
-	Turn off	

## **11. RMS Licenses pool for Admin**

There are some new features for admin users as well. Changes appear in **Users→Profiles** table. Here you have some new columns like **Licenses left**, **License coverage** column now showing other information than before.

Field name	Explanation
Licenses left	The total number of licenses left in all your pools.
License coverage	The date is calculated from your available licenses and monitoring devices. i.e you have 10 licenses and 5 monitored devices, you will see date 2 month from todays date, because it means you have enough

As admin you can give some of you licenses to your child company but you can not return them back until you delete child profile. Once you delete it all remaining licenses that child company have not used come back to your license pool.

Once you click **Move pools** a pop-up window will appear. There you can select your child company, enter how many licenses you want to give and click **Move licenses**. You can not give more licenses than you have available.



## 12. Feedback

A feedback function lets quickly and effectively leaves your suggestions about the RMS system improvements or report noticed bug to RMS system administrator.

	Feedback	
Feedback type:		
Suggestions	÷	
Subject*:		
Feedback:		
BI⊻		
File upload:		
	🕹 Choose a file	
	Send	
		_

Field name	Explanation
Feedback type	Choose feedback type Suggestions/Bug report
Subject	Subject of the feedback
Feedback	Write here your feedback text
File upload	You can choose to attach file which helps us to better understand your suggestion or noticed bug.