Remote Management System

User Manual

v_0.30

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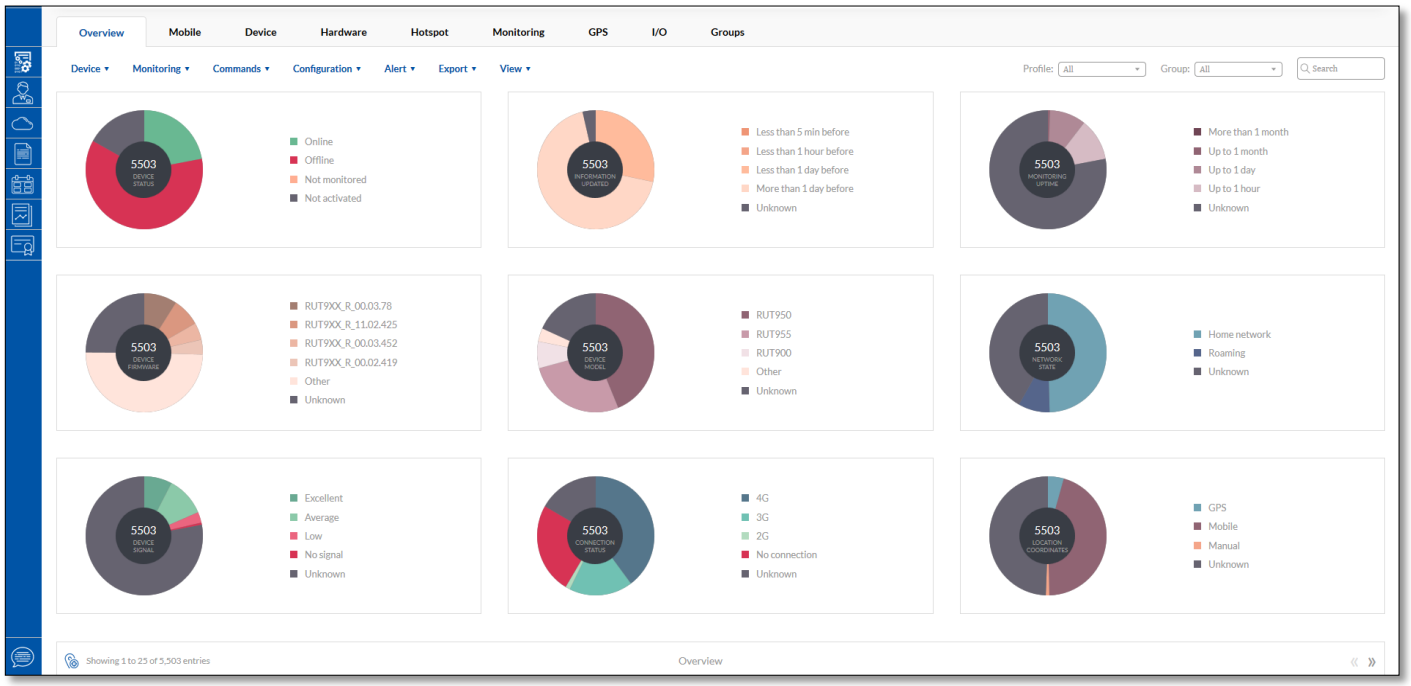
1. Main Menu



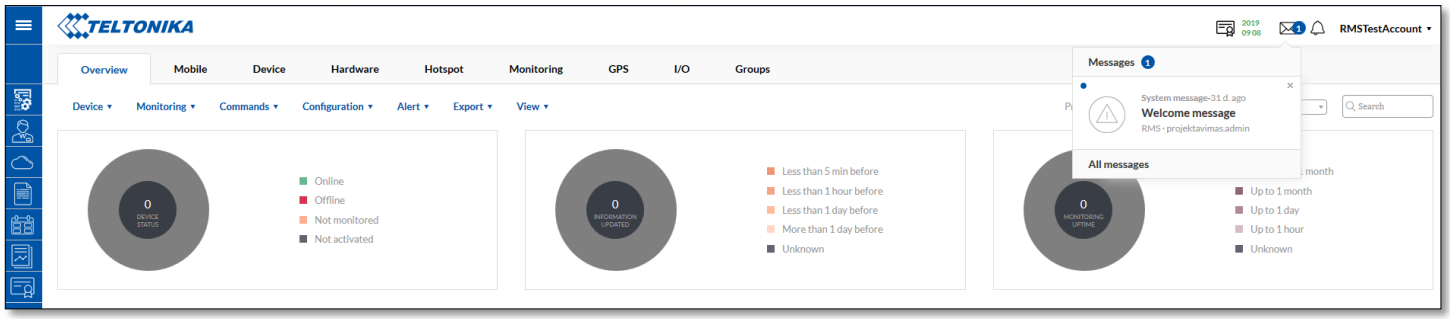
	Field name	Explanation
	Menu	Show and hide options
	Management	Tab for router monitoring and configuration
	Users	Tab for managing RMS users and profiles
	*Fota*	Tab for *Fota* configuration
	Files	Tab for files uploading to RMS system
	Events	Shows Events of Device, Profile, User and System
	Reports	Tab for Reports managing
	Pools	Tab for licenses pool Summary
	Feedback	Tab for sending feedback to Teltonika

2. User Tab

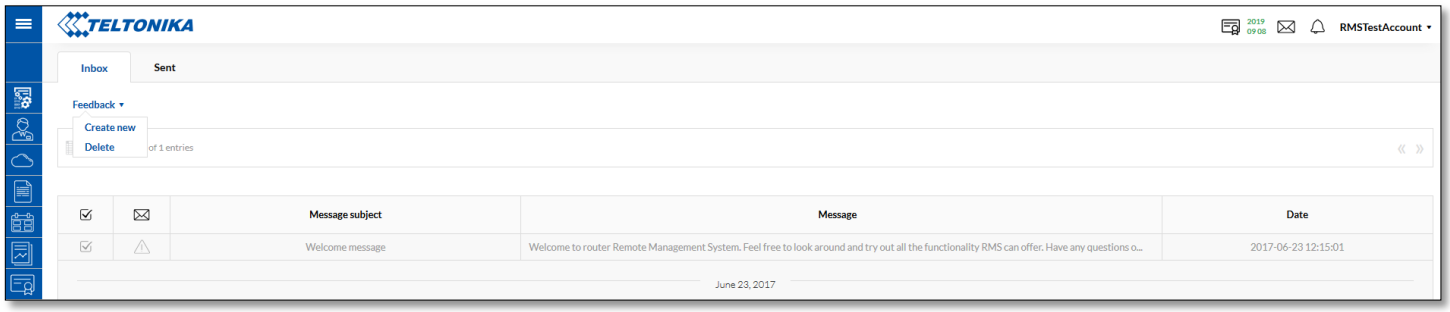
Via User Tab you can read/send messages, check your devices notifications, and see your licenses pool summary or change user settings.

2.1. Inbox

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

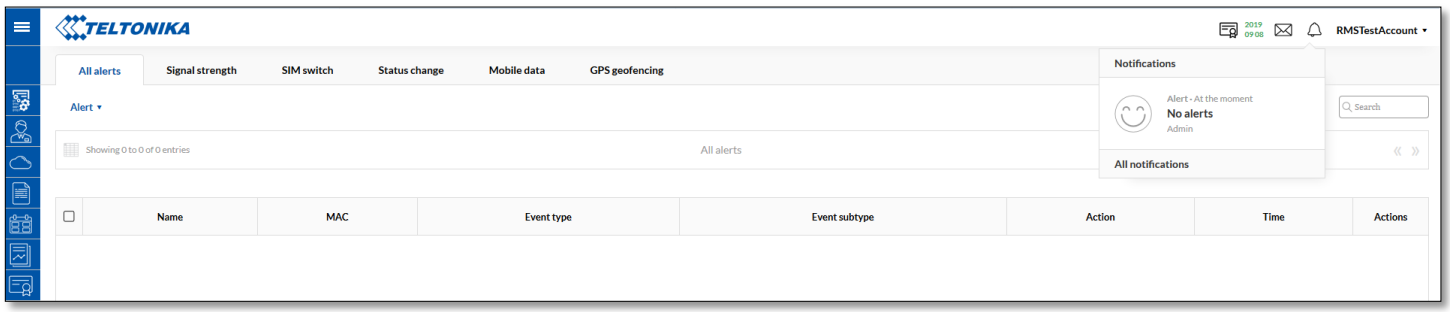


In the Inbox Tab you can find all received messages from RMS system administrator, create new message and report noticed bug or leave a suggestion about RMS system.

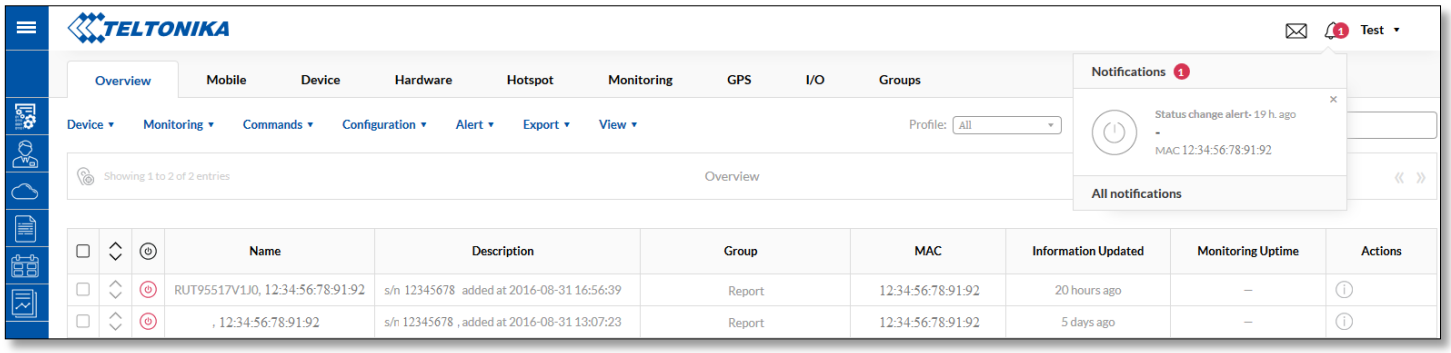


2.2. Notifications

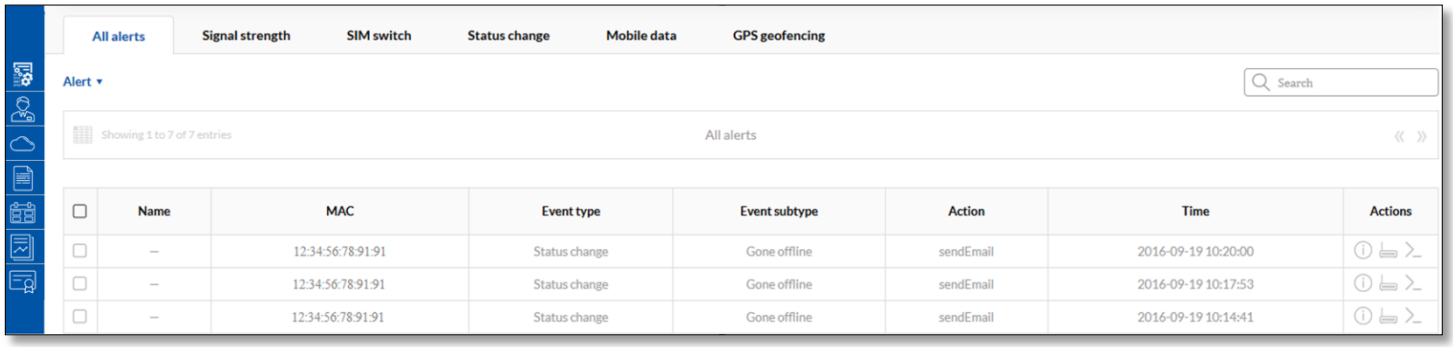
Notifications tab will inform you about your devices events, which are related with signal strength, SIM switch, device status change or mobile data usage. Alarm notifications settings can be found via *Management -> Overview -> Alert*.



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

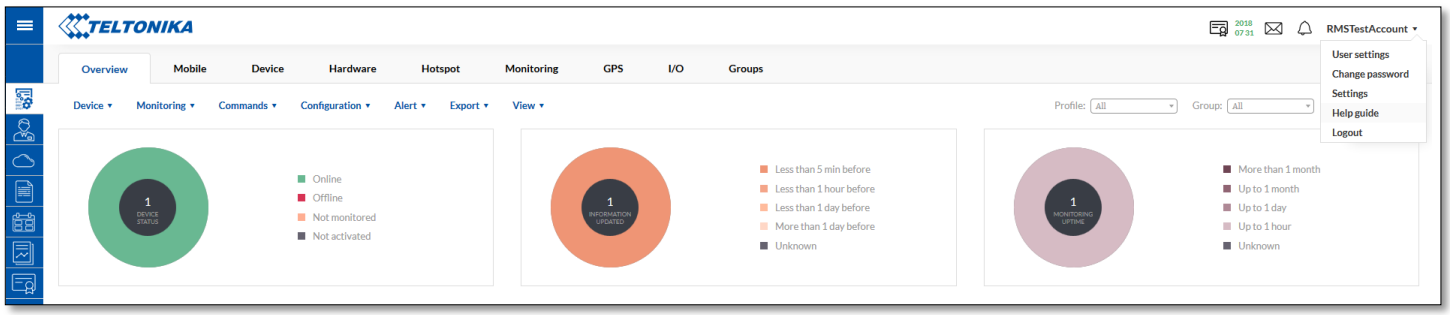


In All notifications Tab you can find previous your device events which are related to SIM switch, signal strength, device status change or mobile data usage.



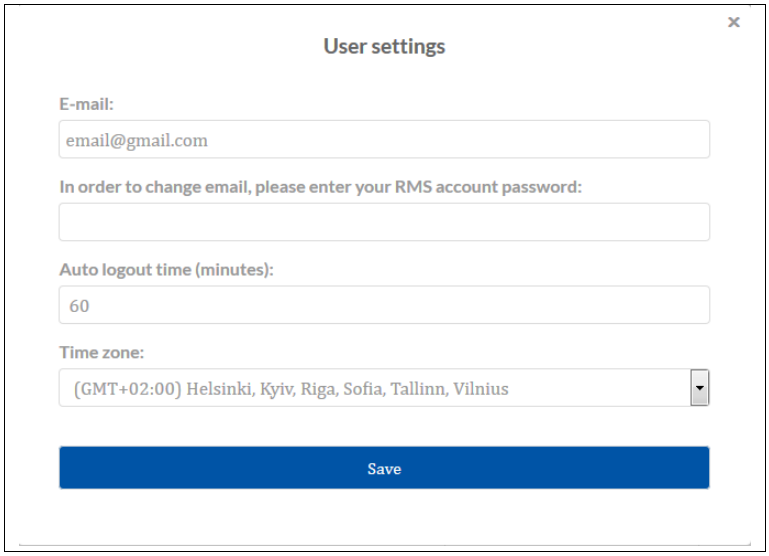
2.3. User settings

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



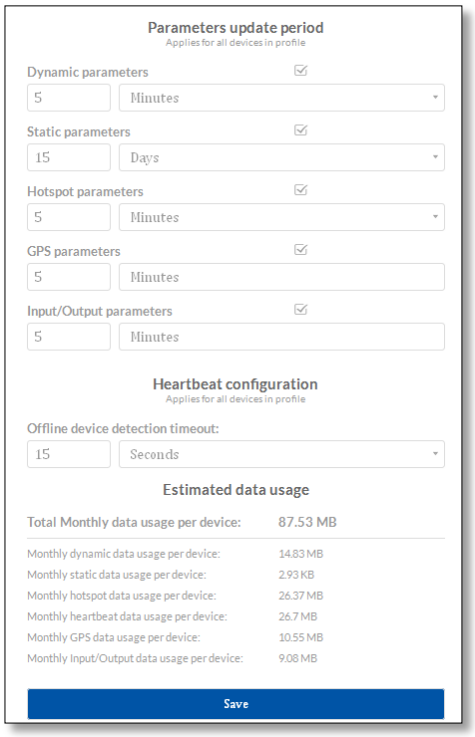
2.3.1. User settings

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.



2.3.2. Setting

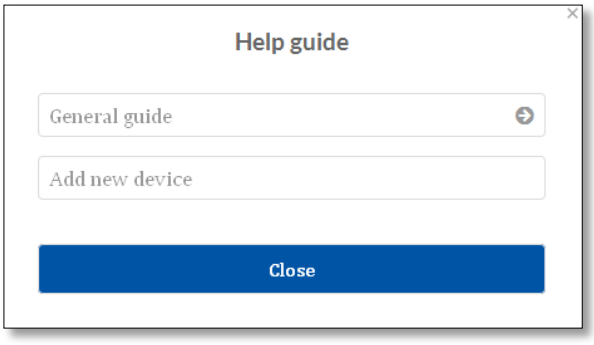
Via Settings Tab you can set parameters update period, offline device detection timeout, allow parameters monitoring and check totally monthly data usage per device. Settings apply for all devices in the profile. Same settings you can also find via *Management -> Monitoring -> Configure*, but they only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



2.3.3. Help guide

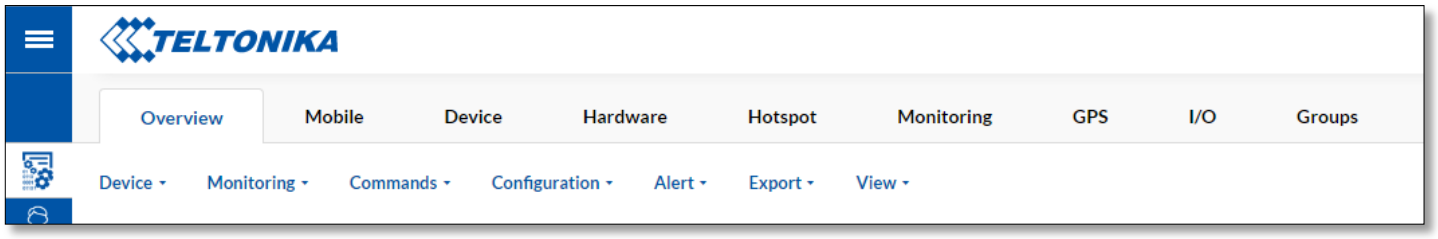
Help guide has two main subcategories – General guide and Add new device guide.

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.



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.



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 (*we strongly recommend to update 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.
	Not registered	Indicates that device is added to RMS system, but device was never connected to it.

Actions column consists of four selections:

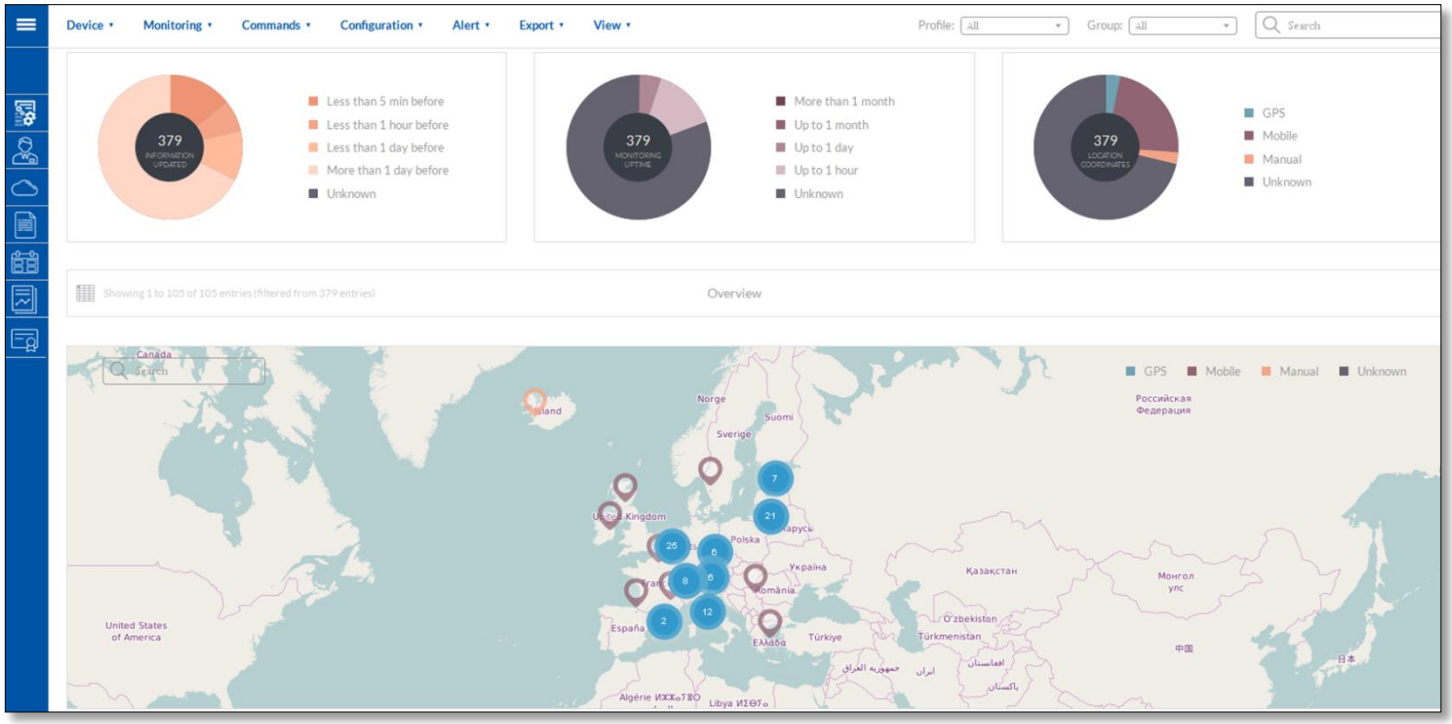
	Field name	Explanation
	Device details	Via this you can reach detailed information about each device
	WebUI	If router is connected to the RMS system you can reach router's WebUI
	CLI	Opens routers CLI window
	Update	Force update routers information on RMS system

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).

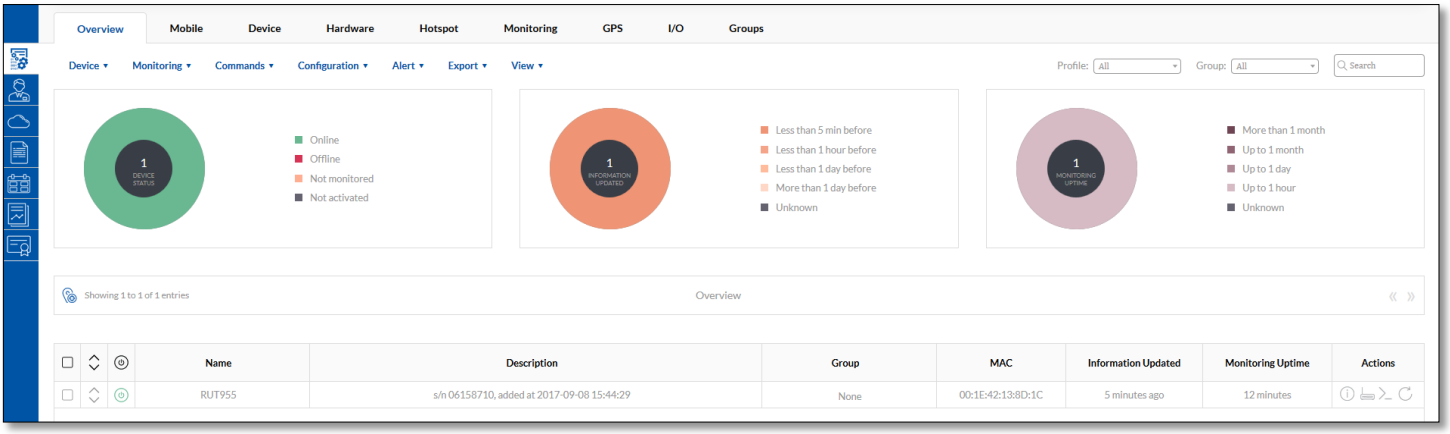
You can navigate from all devices table to map and vice versa by clicking these icons:

Switch from all device table to Map

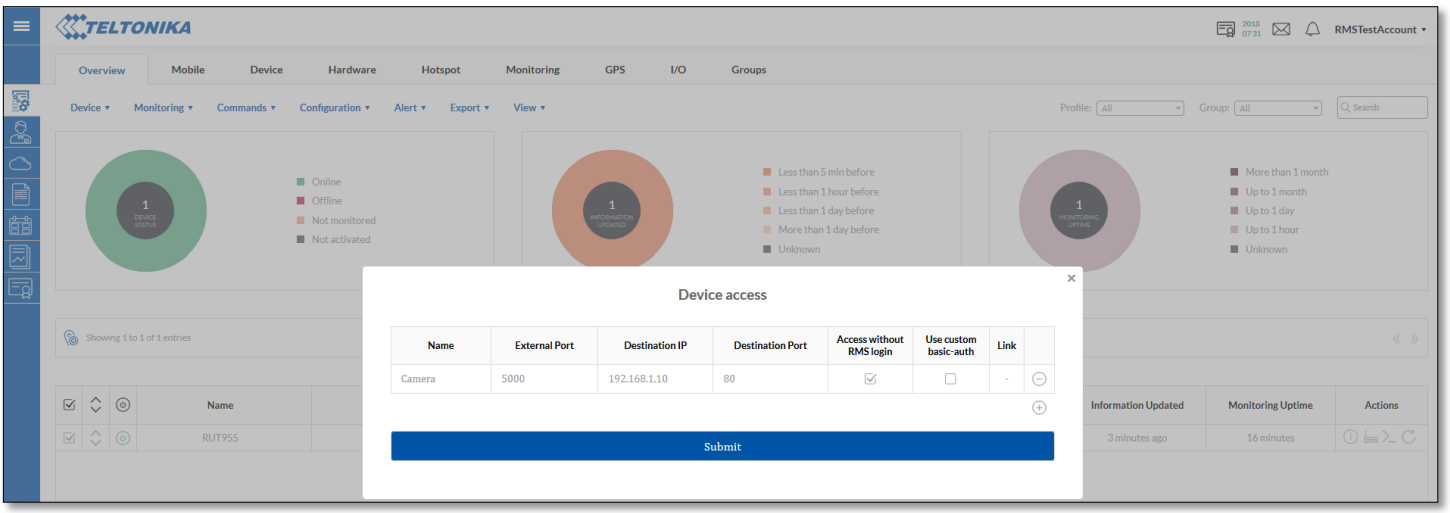
Switch from Map to all device table



3.1. Overview



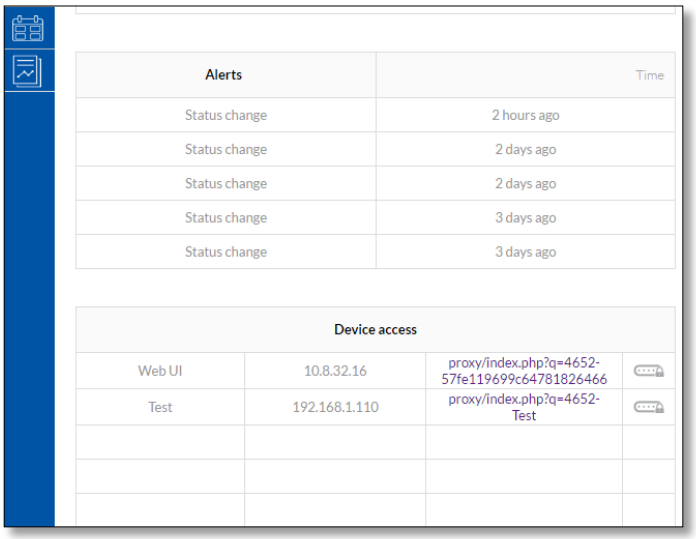
Via *Overview -> Commands ->* Access you can configure the attainment of the devices which are behind the router.



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 ⓘ 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*.



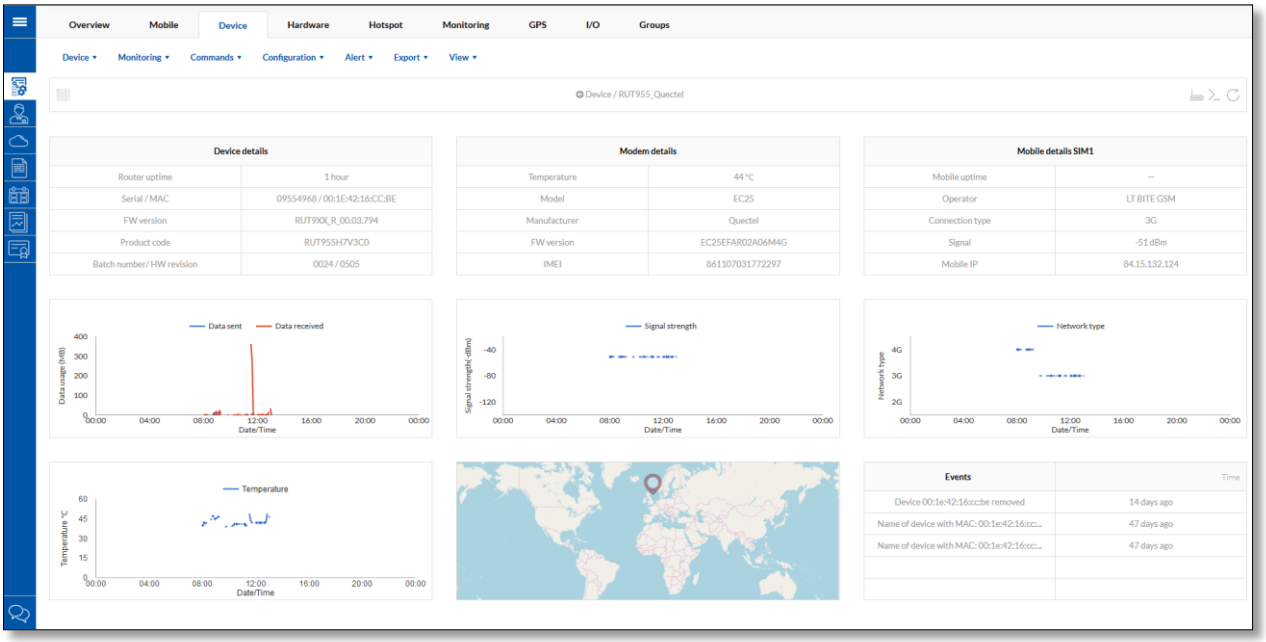
Information from devices which could be shown in overview tab is described below (you can select which information will be shown in *Overview -> View*):

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

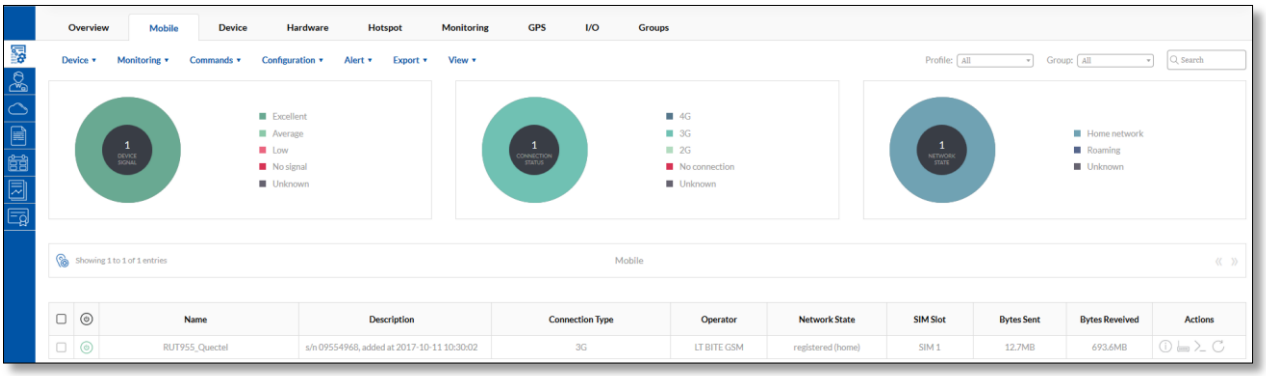
3.1.1. Device details

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



3.2. Mobile

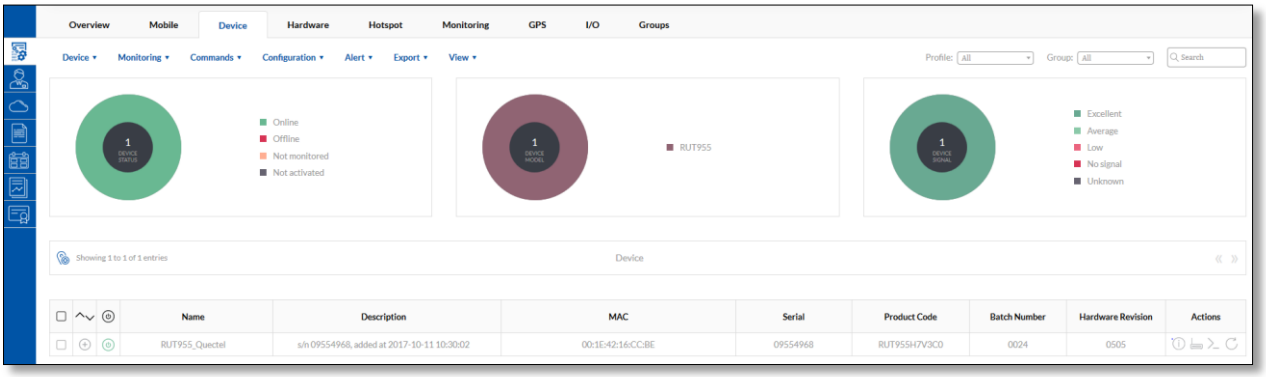
Information from devices which could be shown in Mobile tab is described below:



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

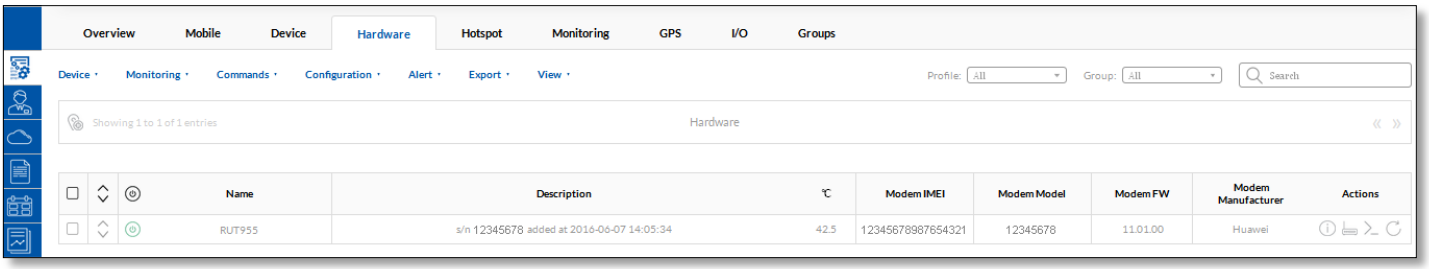
Information from devices which could be shown in Device tab is described below:



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:

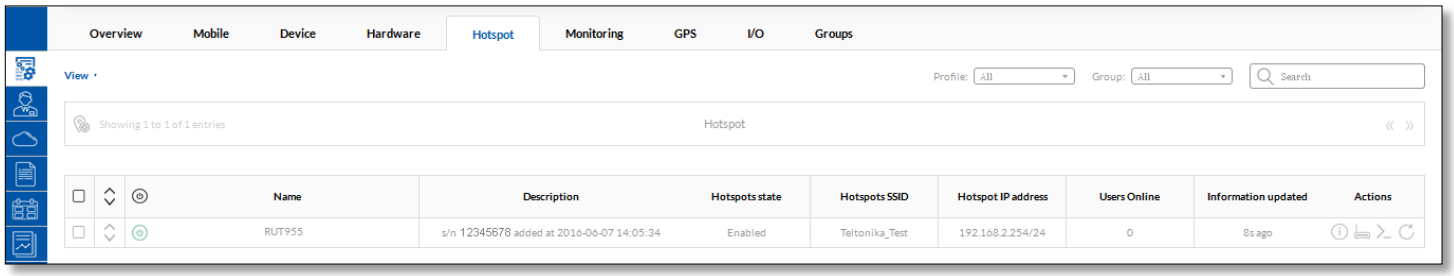


Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Modem Model	Router GSM modem's model
Modem FW	Router GSM modem's firmware version
Modem Manufacturer	Router GSM modem's manufacturer
Modem IMEI	Router GSM modem's IMEI
^{o}C	Device modem's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

3.5. Hotspot

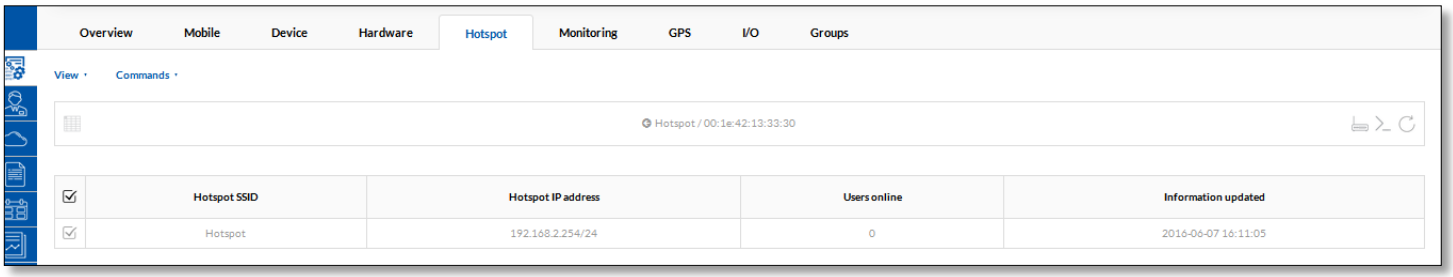
Hotspot parameters can be monitored only then Hotspot is enabled on your router and when in RMS Monitoring – "Hotspot monitoring" is enabled (more about it you can find in section 3.6 Monitoring)

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



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 (ⓘ) in the action column.

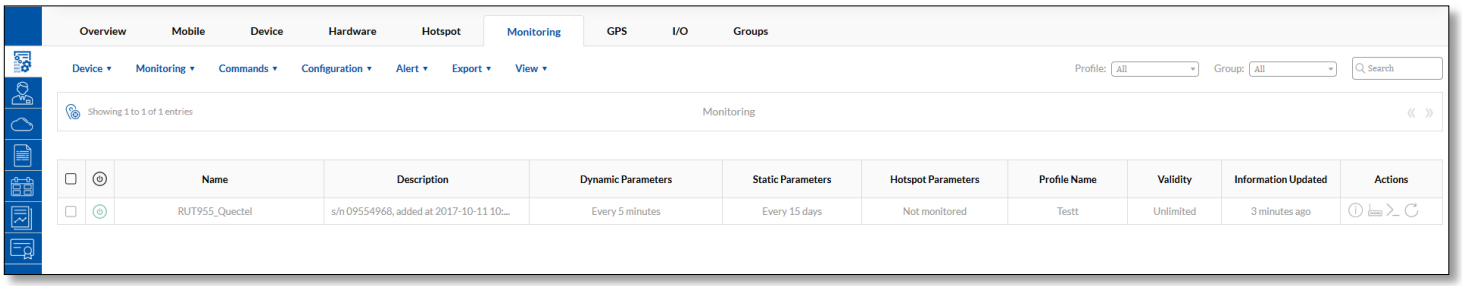


Via View Tab you can check created Hotspot users credentials, and see which users are connected.

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

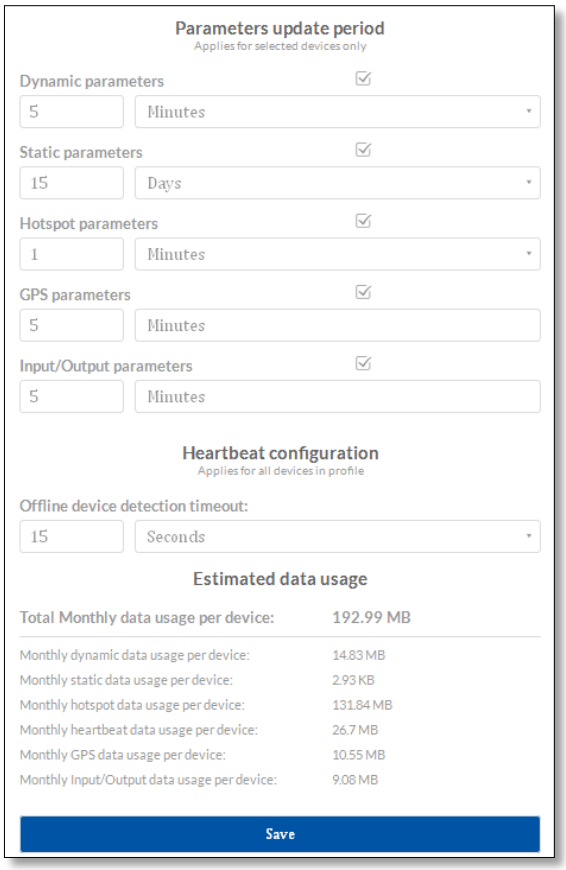
Information from devices which could be shown in Monitoring tab is described below:



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.



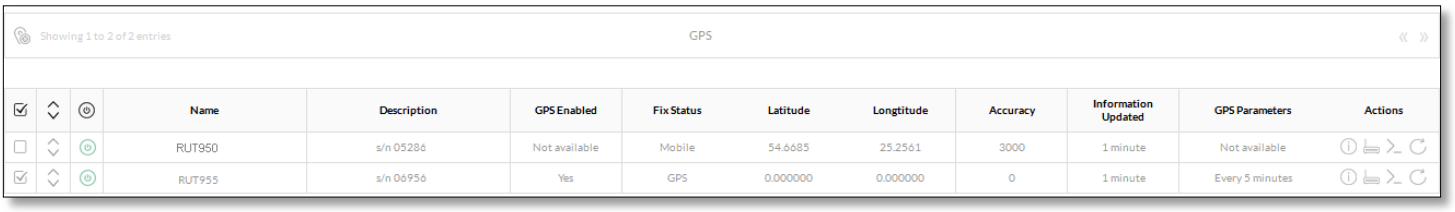
3.7. GPS

To see one device location displayed on map press (ⓘ) 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.

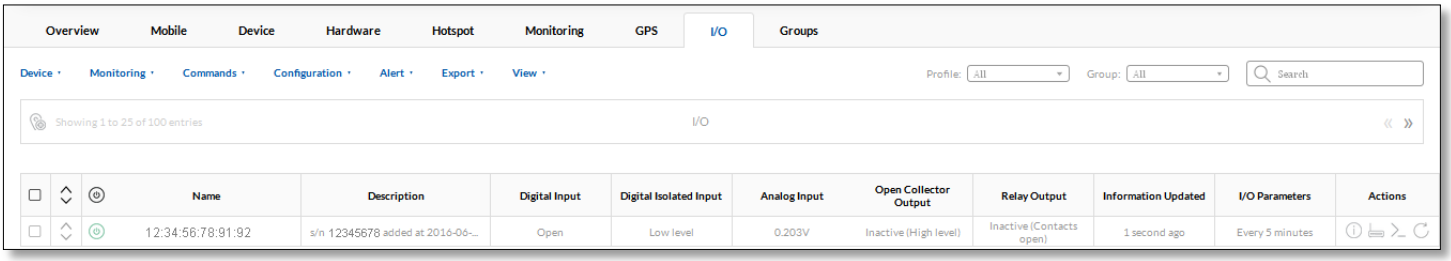
Information from devices which could be shown in GPS tab is described below:



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

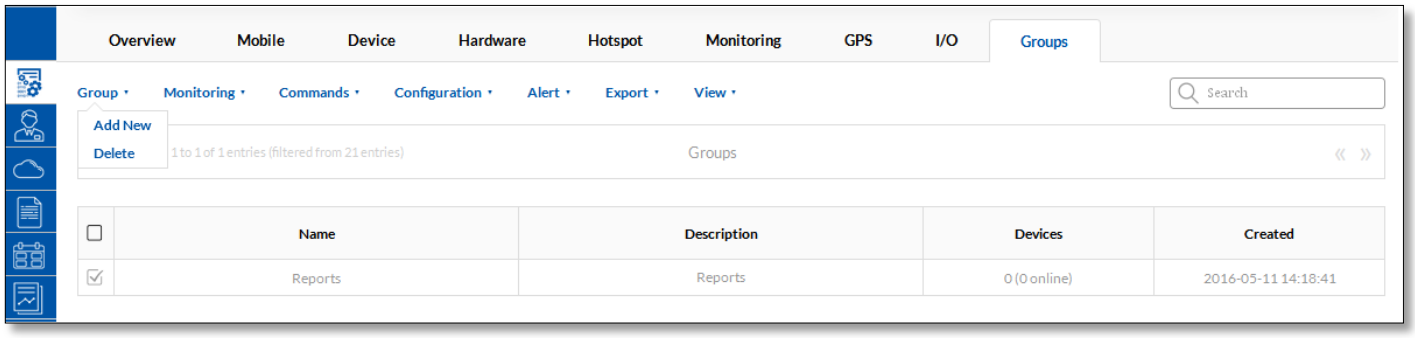
If device which is added to the RMS system has I/O you can monitor it's information through the RMS Tab "I/O". First you have to enable I/O monitoring via *Management -> I/O -> Monitoring -> Configuration*.



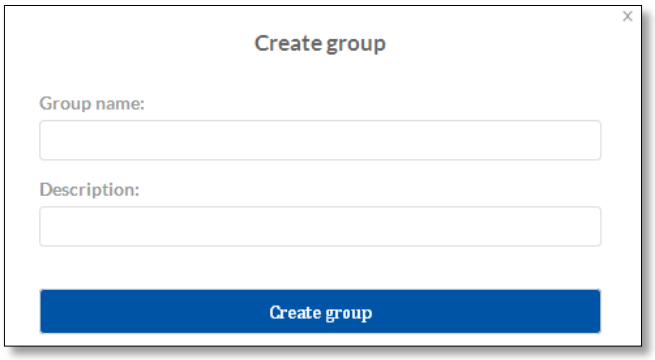
Field name	Explanation
Name	Router's name.
Description	Router's description. Description can be changed by user.
Digital Input	Shows digital input's state (Open / low level / high level)
Digital Isolated Input	Shows digital isolated input's state (Open / low level / high level)
Analog Input	Router's 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

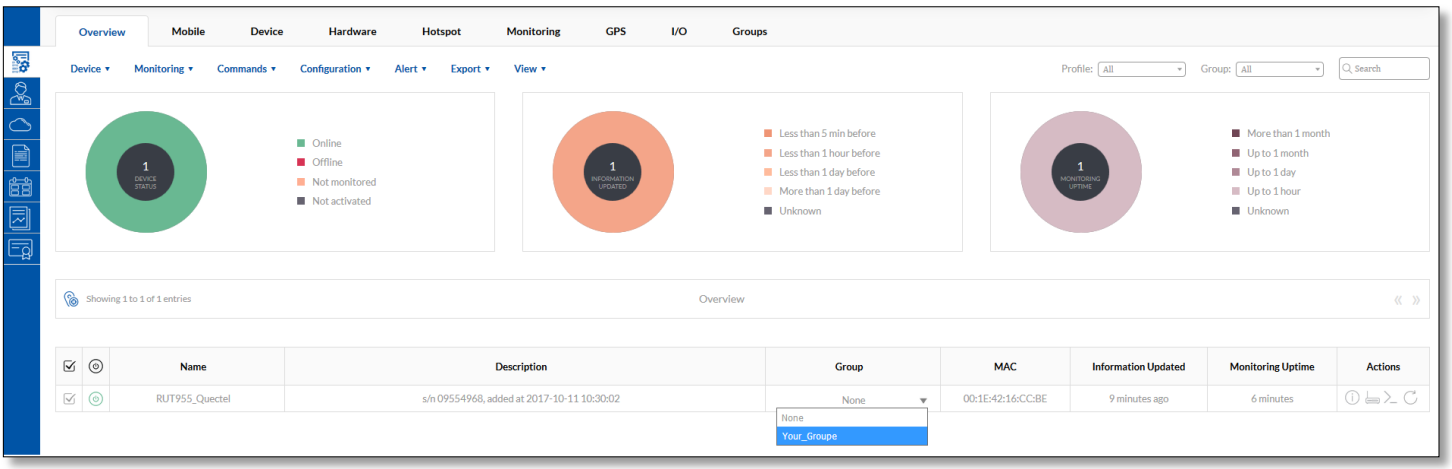
To create new group go to *Management -> Groups* window and press *Group -> Add New* button.



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



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



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

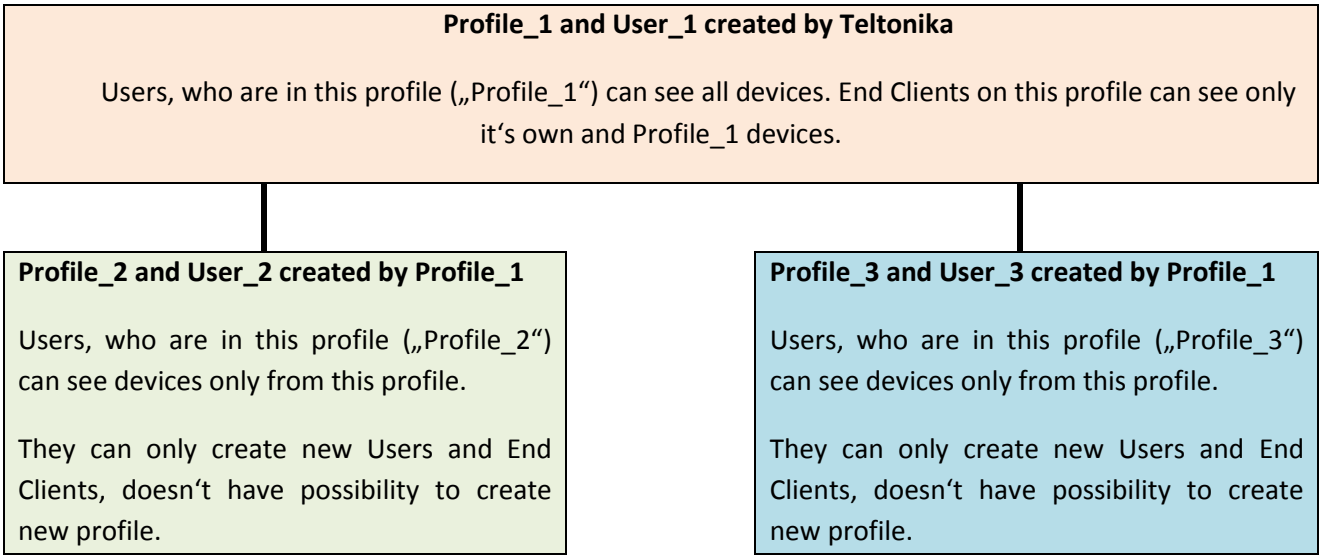
Field name	Explanation
Name	Name of the group.
Description	Group's description. Description can be changed by user.
Profile	Profile which created this group.
Devices	Shows total and currently online devices
Created	Date when the group was created

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.

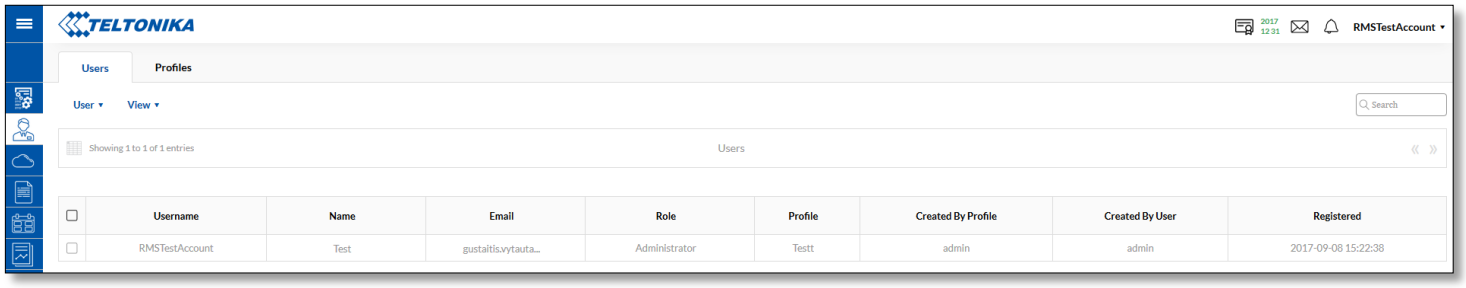


In order to create user, you first need to create user profile. That can be done in *Users -> Profiles* window by pressing *Add New* button

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:



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

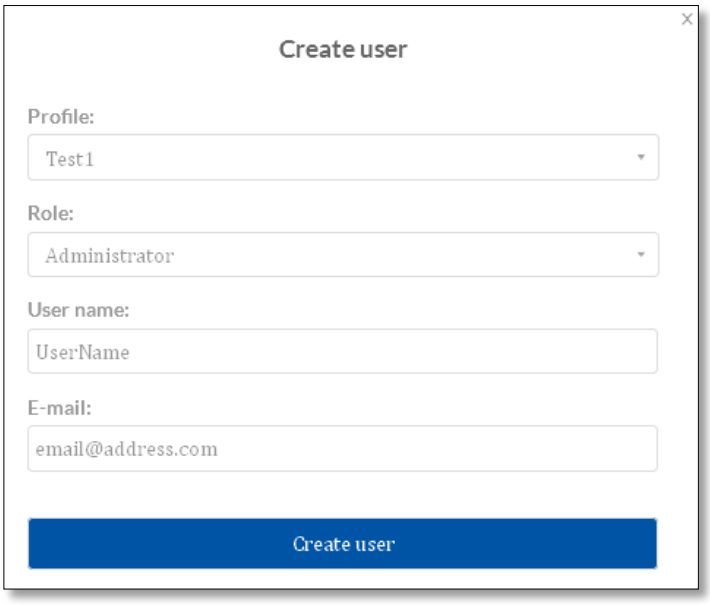
Creating new user on RMS system:

Profile: Profile's name to which user will be registered

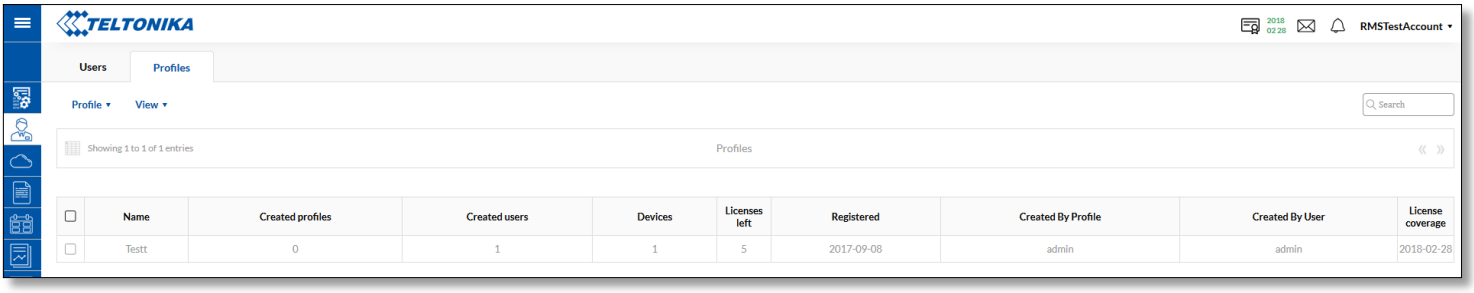
Role: User's role. It can be Administrator or End Client

User name: User's name will be used to login to RMS

E-mail: User's e-mail address. Primary password of the account will be sent to this e-mail. Using email you can recovery your account.



4.2. Profiles

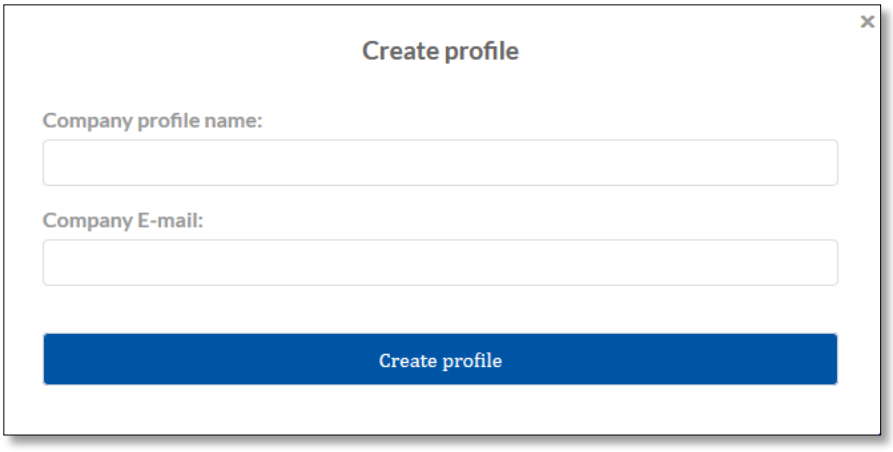


Field name	Explanation
Name	Profile‘s name
Created profiles	Shows how much profiles this profile created
Can created profiles	Shows how much profiles this profile can create
Created users	Shows how much users this profile created
Can created users	Shows how much users this profile can create
Devices	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 name: New Profile’s name. It will be used for easier management purposes

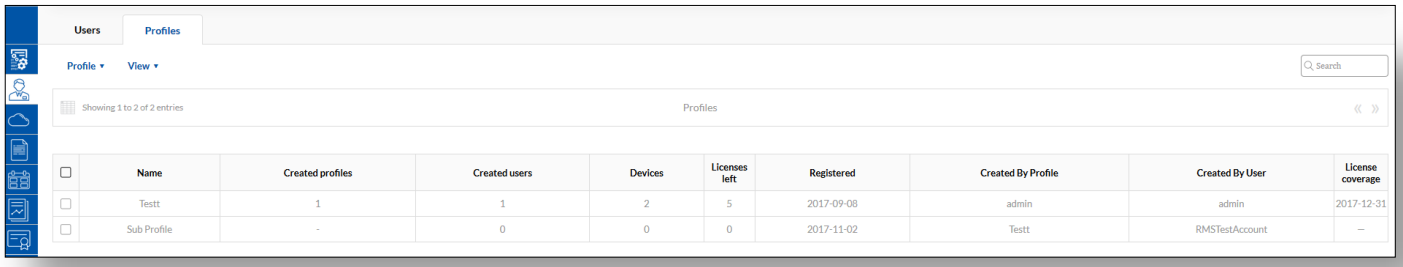
Company E-mail: E-mail for which RMS confirmation will be sent



*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 4.1 for creating user and chapter 4.2 for client.



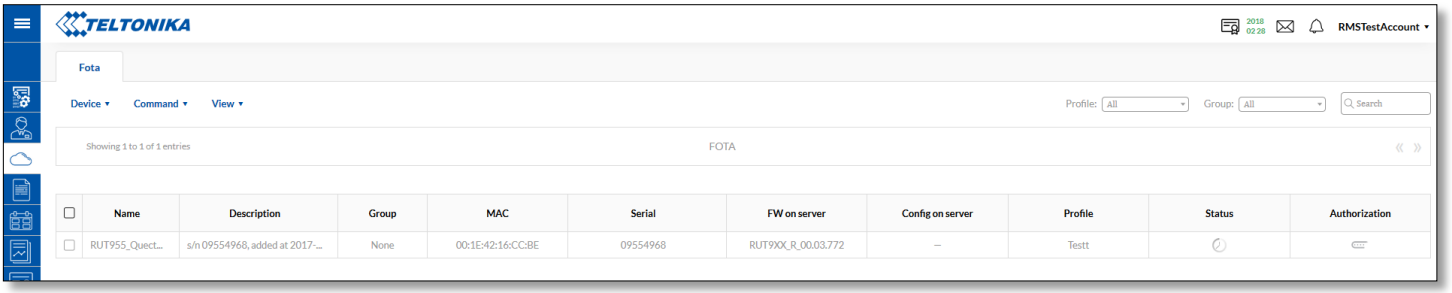
5.1 Usage scenario

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 11.

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.

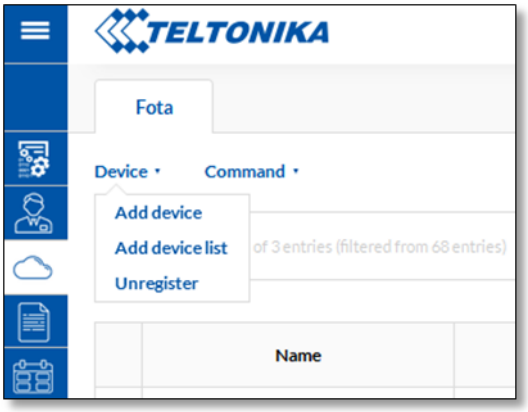
Device information which can be shown in *Fota* tab is described below:



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 *Fota*. Logins must be used in the router *System -> Firmware -> FOTA -> Server Settings*

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.



6.1.1. Add device

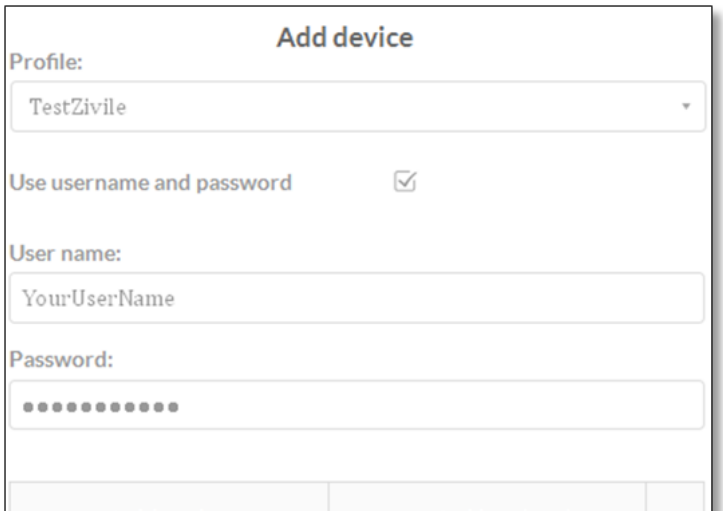
Profile Profile's name to which device will be added

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

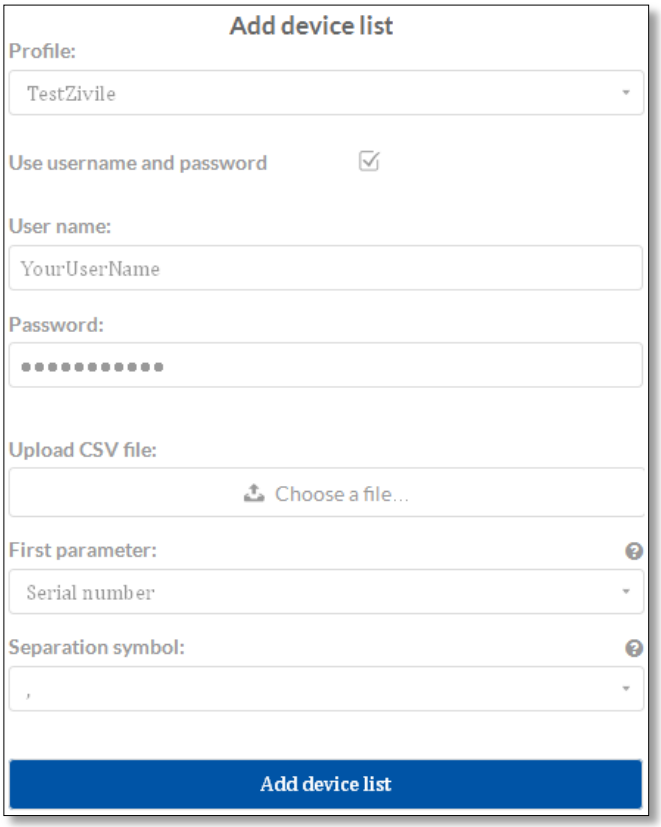
Password Password for Fota authorization

Serial number Router's, which you want to add to Fota, serial number



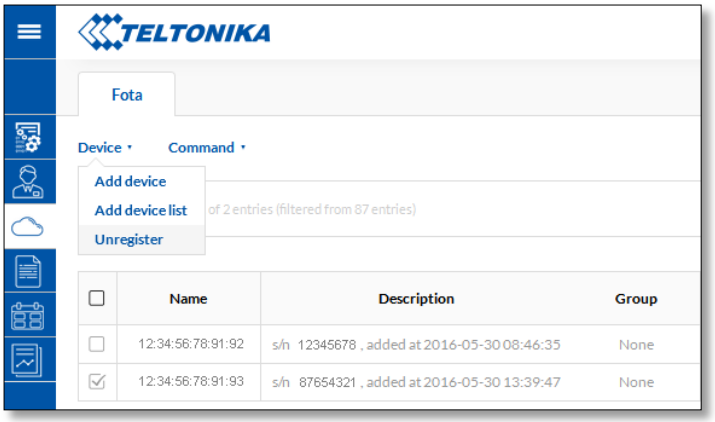
MAC address (LAN)	Router's, which you want to add to Fota, MAC address (LAN)

6.1.2. Add device list



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

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.

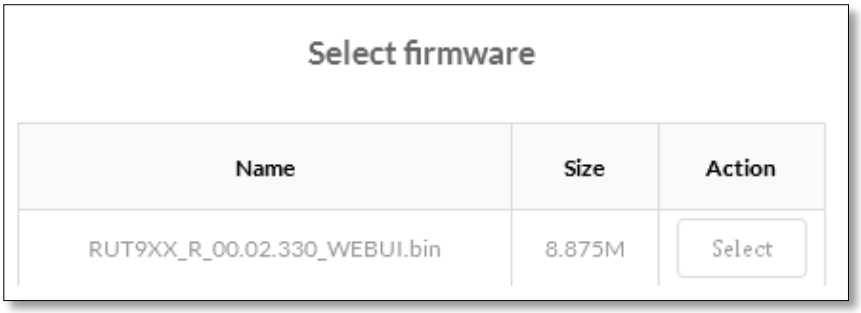
6.2. Command Tab

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*)

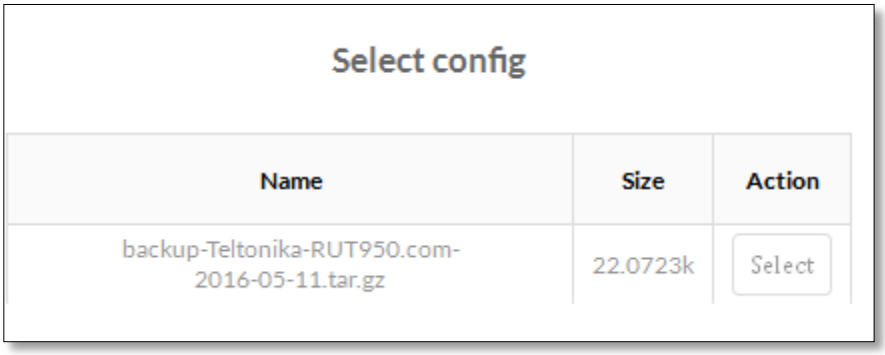
6.2.1. Select FW

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.



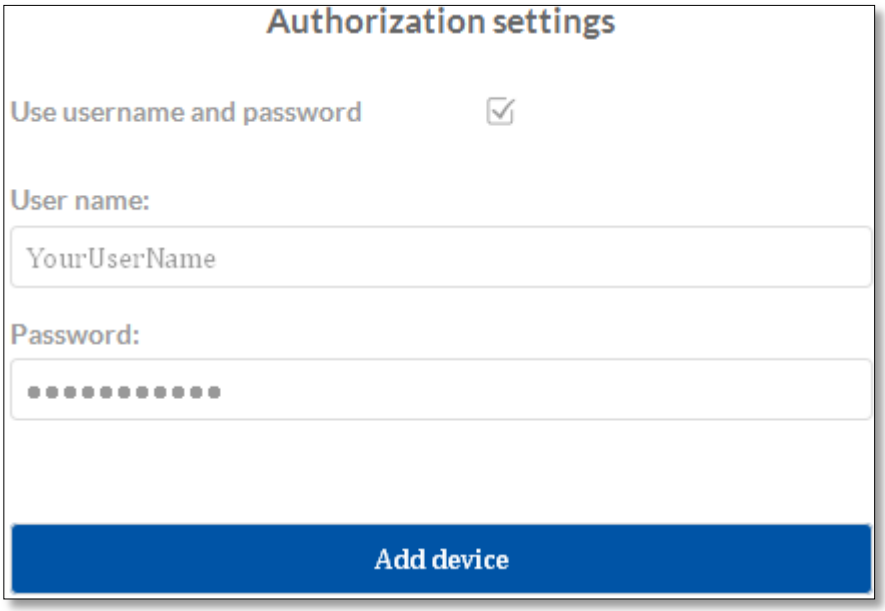
6.2.2. Select Config

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.



6.2.3. Authorization

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



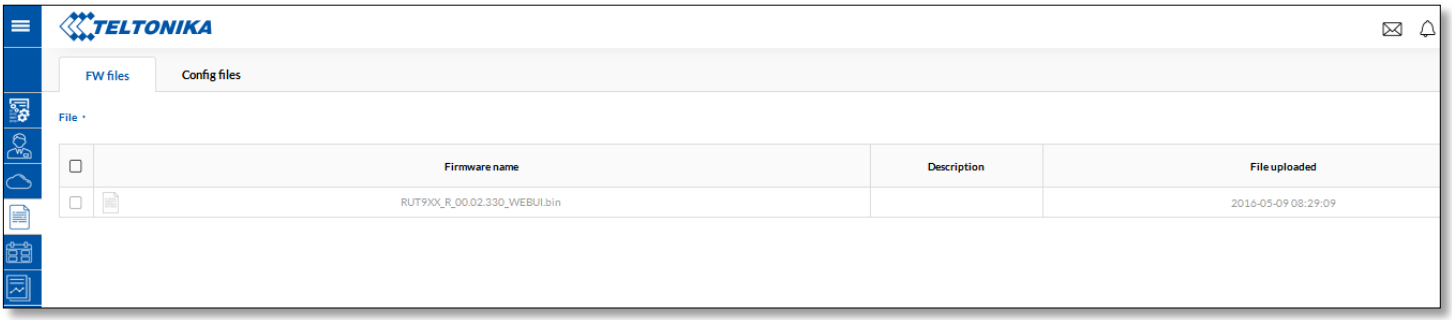
7. Files

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

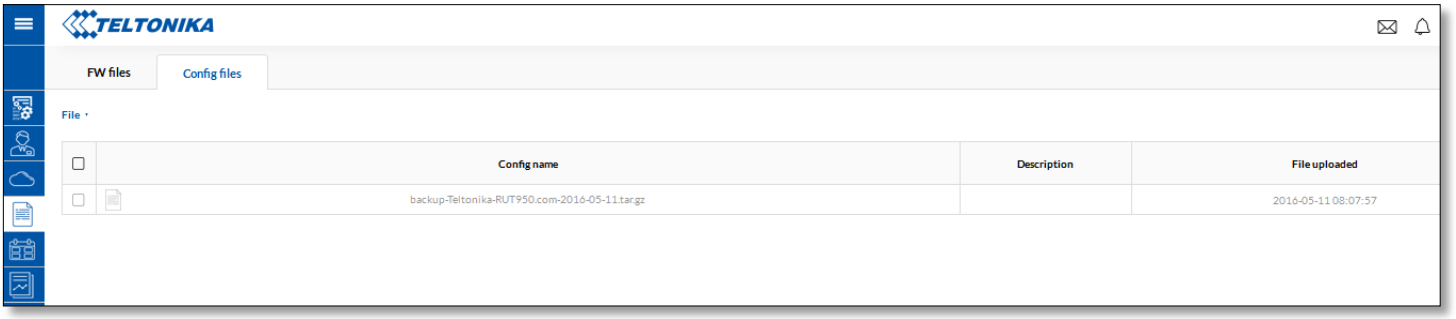
In FW files tab you can upload new firmware version file or delete existing one. FW file table provides information about firmware uploaded to RMS system.



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

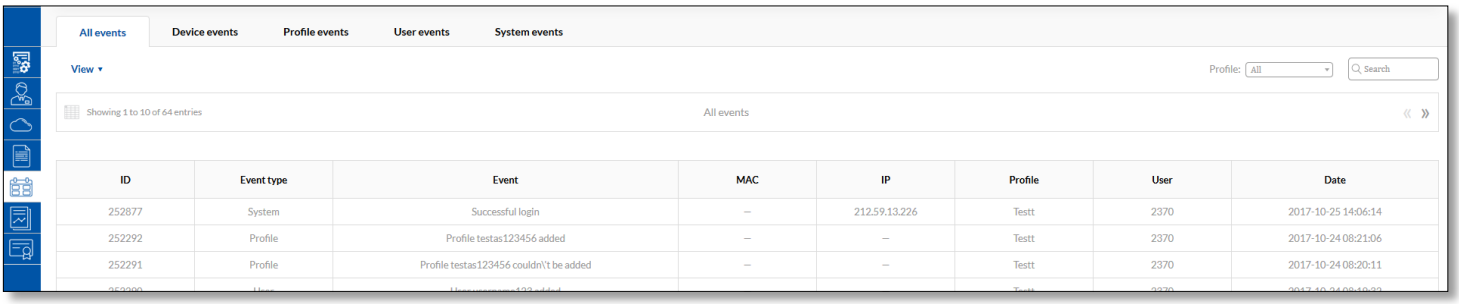
In Config file (backup file from router) tab you can upload new configuration file or delete existing one. Config file table provides information about config files uploaded to RMS system.



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

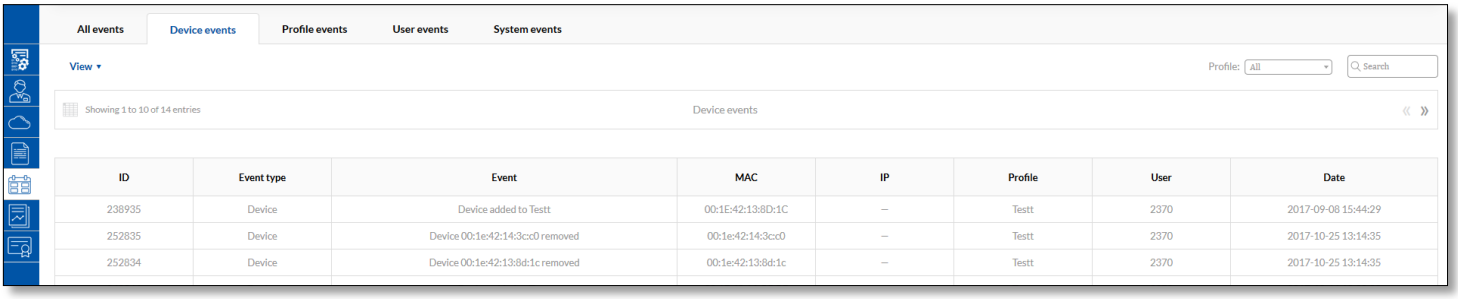
"All events" tab includes all events which are related with Device/Profile/User/System events. Events tab can be used for easier RMS system management purpose, because it shows all RMS system events, their type, event time of occurrence, device MAC, IP addresses, related Profiles and Users.



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

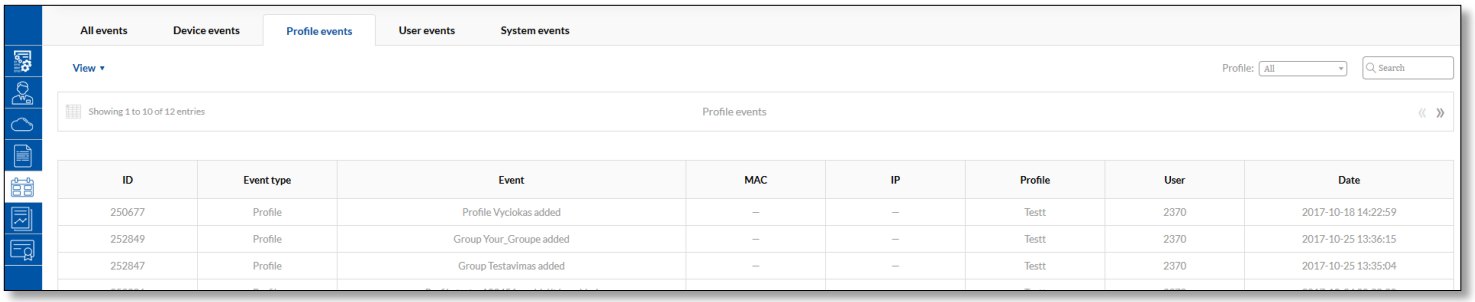
Displays all device events like: added devices, changed monitoring configuration or changed description/name of the device.



ID	Event type	Event	MAC	IP	Profile	User	Date
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
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

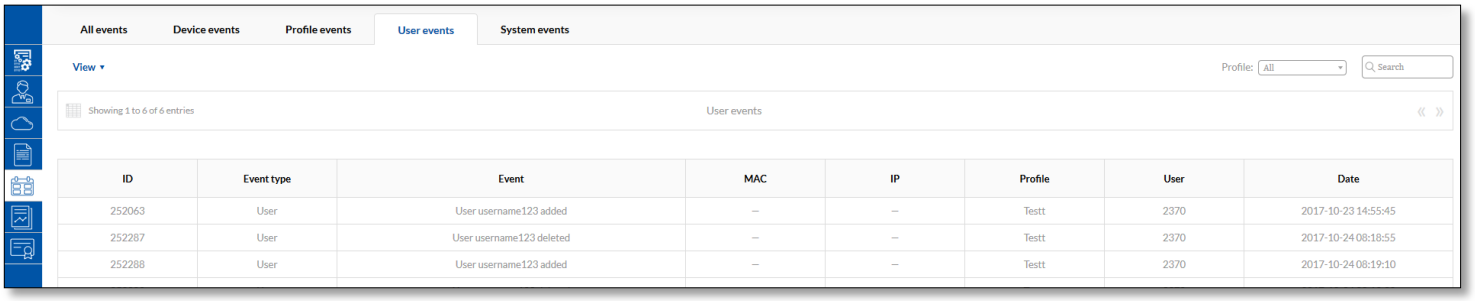
Displays all profile events like: added/deleted profiles and groups.



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

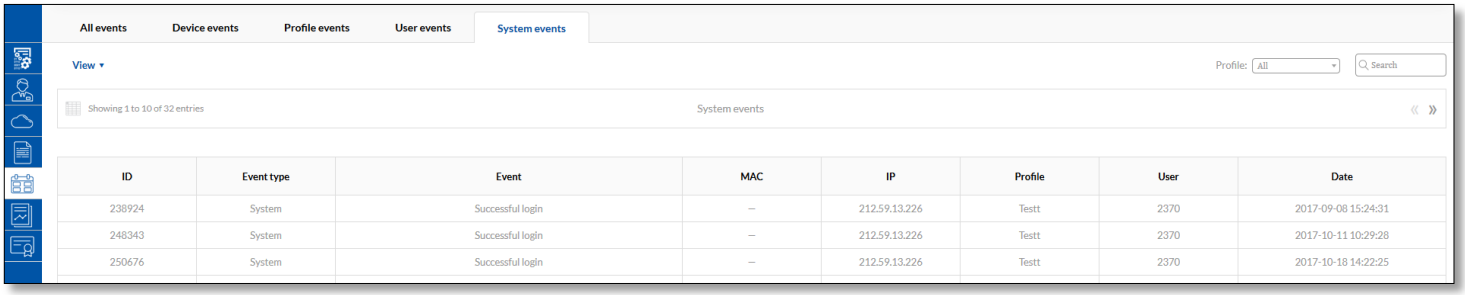
Display all user events like: added/deleted users, changed users roles.



ID	Event type	Event	MAC	IP	Profile	User	Date
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
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.

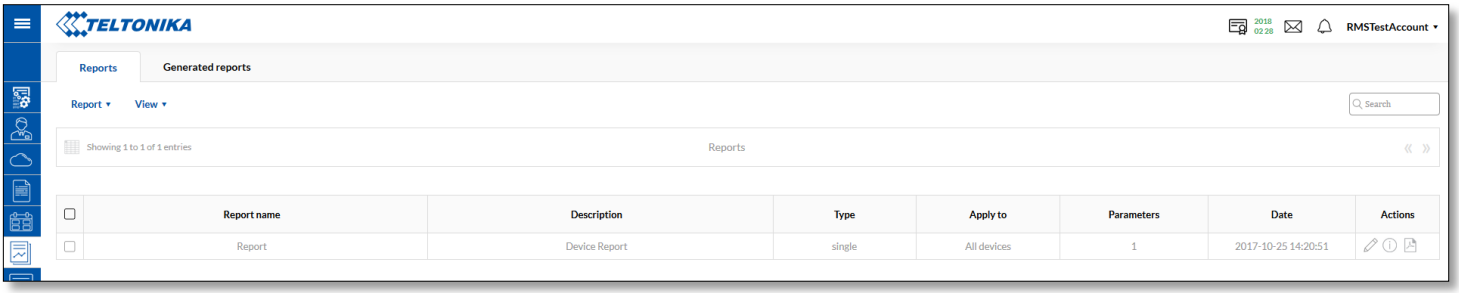


9. Reports

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

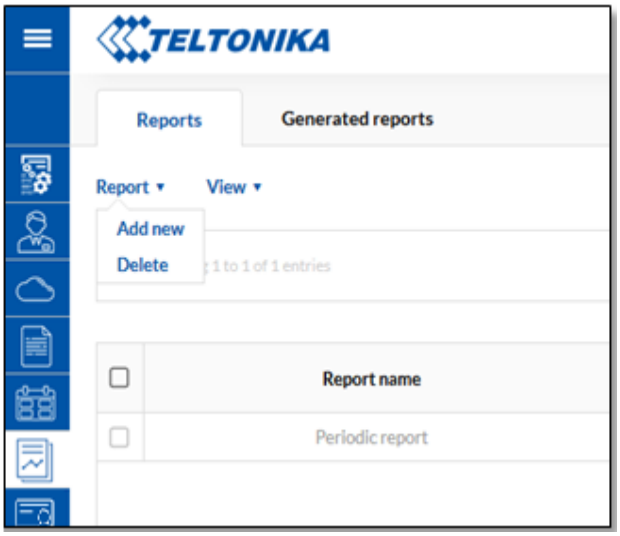
9.1. Reports

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



Field name	Explanation
Report name	Name of the report
Description	Description of the report(used only for easier management only)
Type	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

Description Report’s description – will be used only for easier management purposes

Report Type Single (one time)/Periodic

Period Last day/week/month or custom

Apply for All devices/Device group/Selected devices

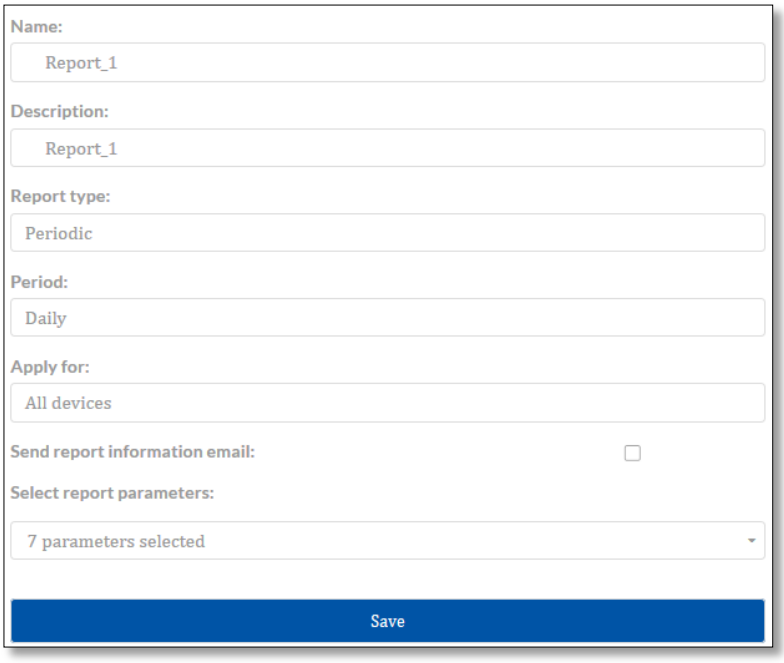
Send report information email Then periodic report will be generated it will be send to specified email address automatically

Select report parameters Parameters which can be add to the report:

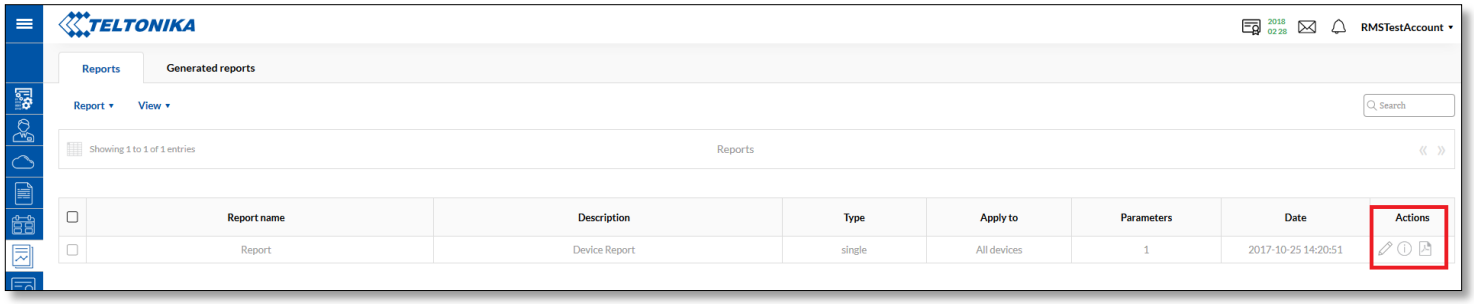
System: -Router uptime
-Temperature

Mobile: - Connection uptime
- Connection type
- Operator
- Data usage

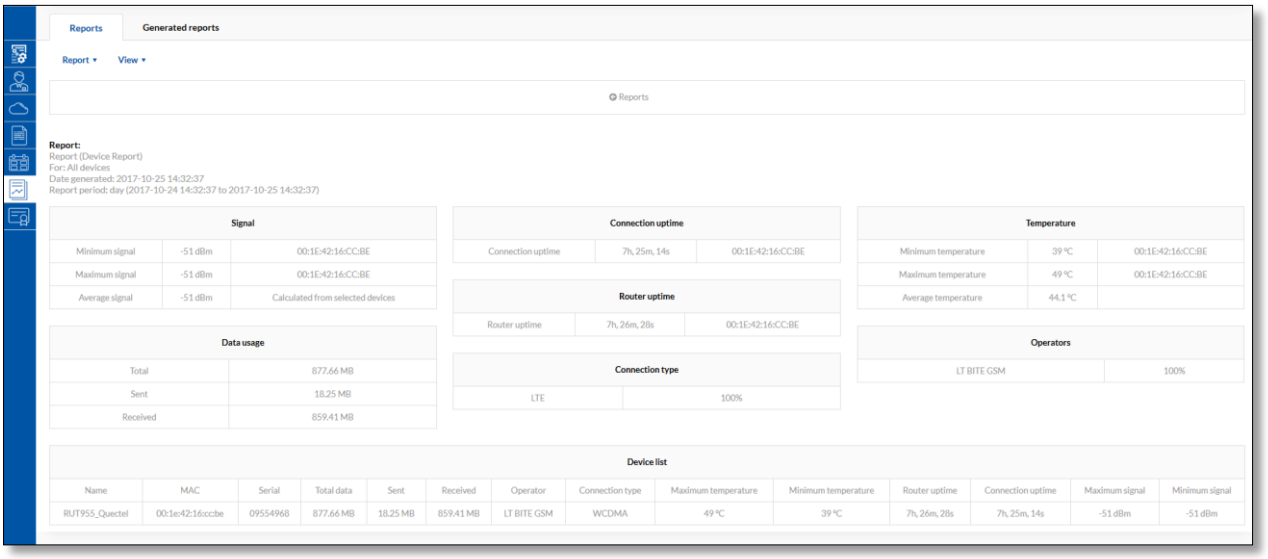
Network: -Signal strength



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

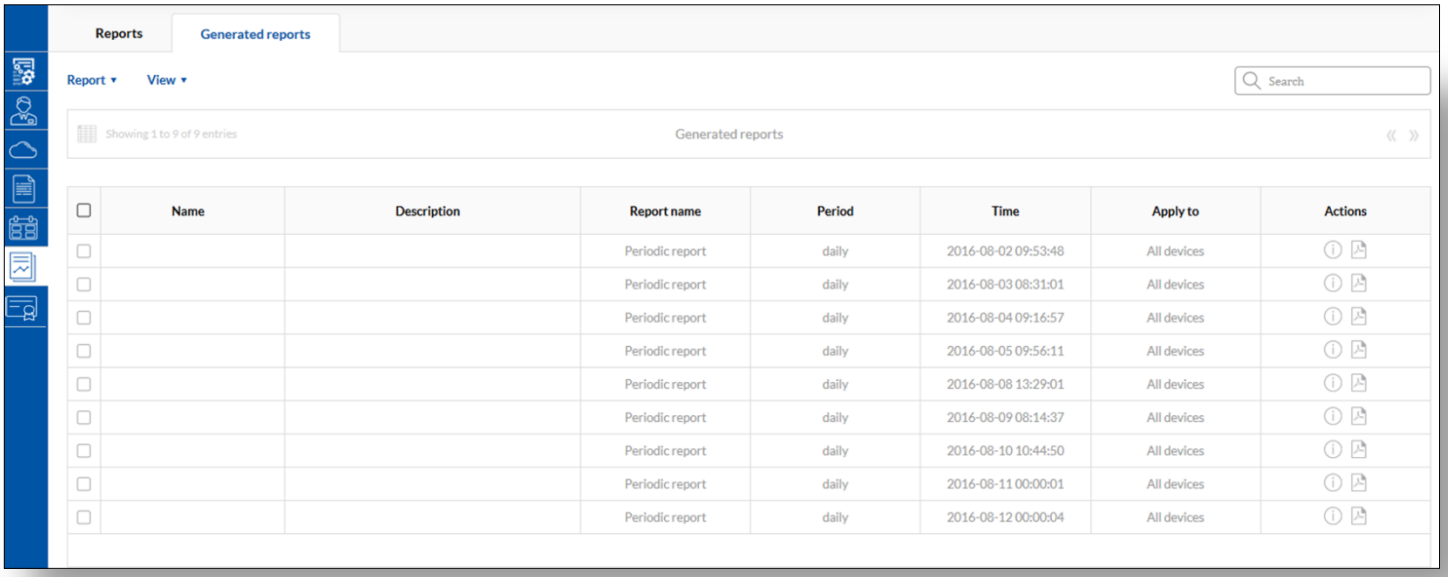


If you added all seven parameters to be generated in your report, you will be able to see information like this:



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:

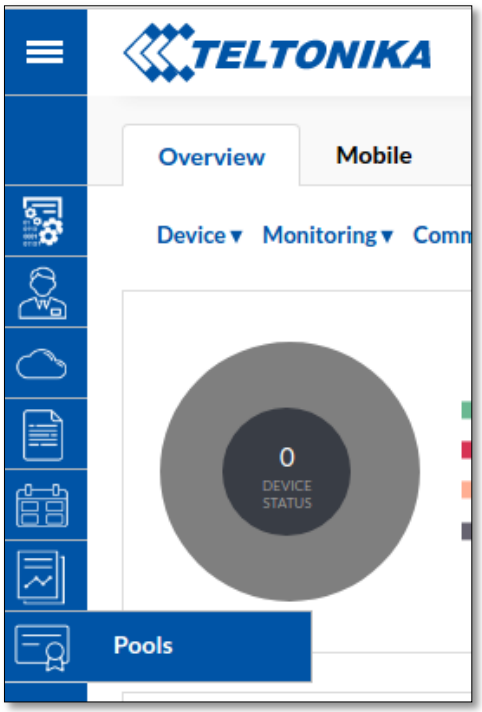


Field name	Explanation
Name	Automatically generated report name. Can be changed by user.
Description	Report description. Can be changed by user
Report name	Automatically generated report name. Can be changed by user.
Period	For which time period report was generated
Time	Date and time then report was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

10. Licenses Pool

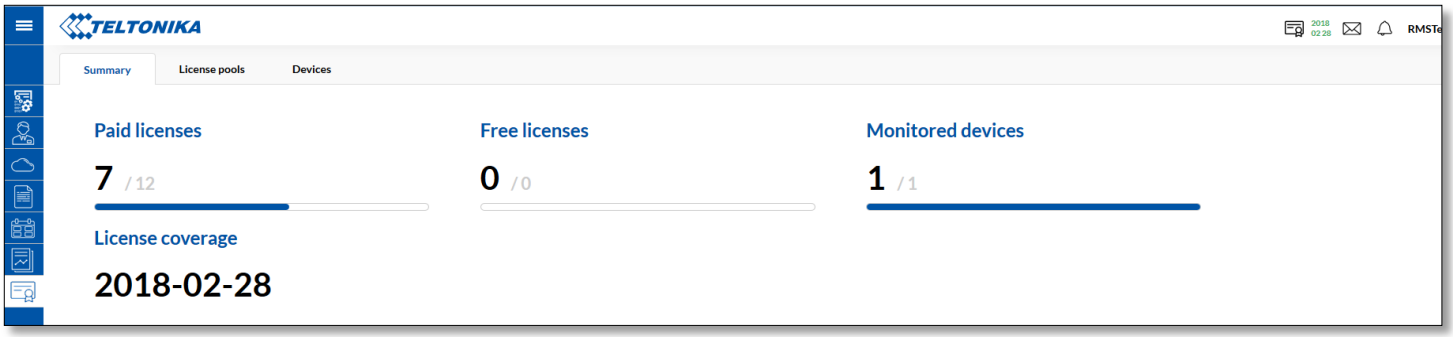
Once you login in to RMS, you will see two new elements: license pools icon, alongside your user name:

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



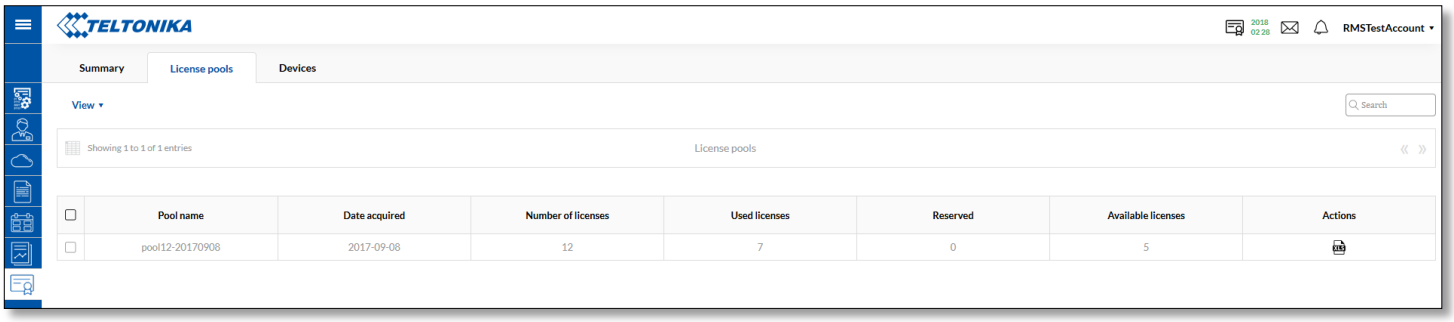
Both buttons will redirect you to pool **Summary** window. There are three tabs which are explained further in this document.

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.



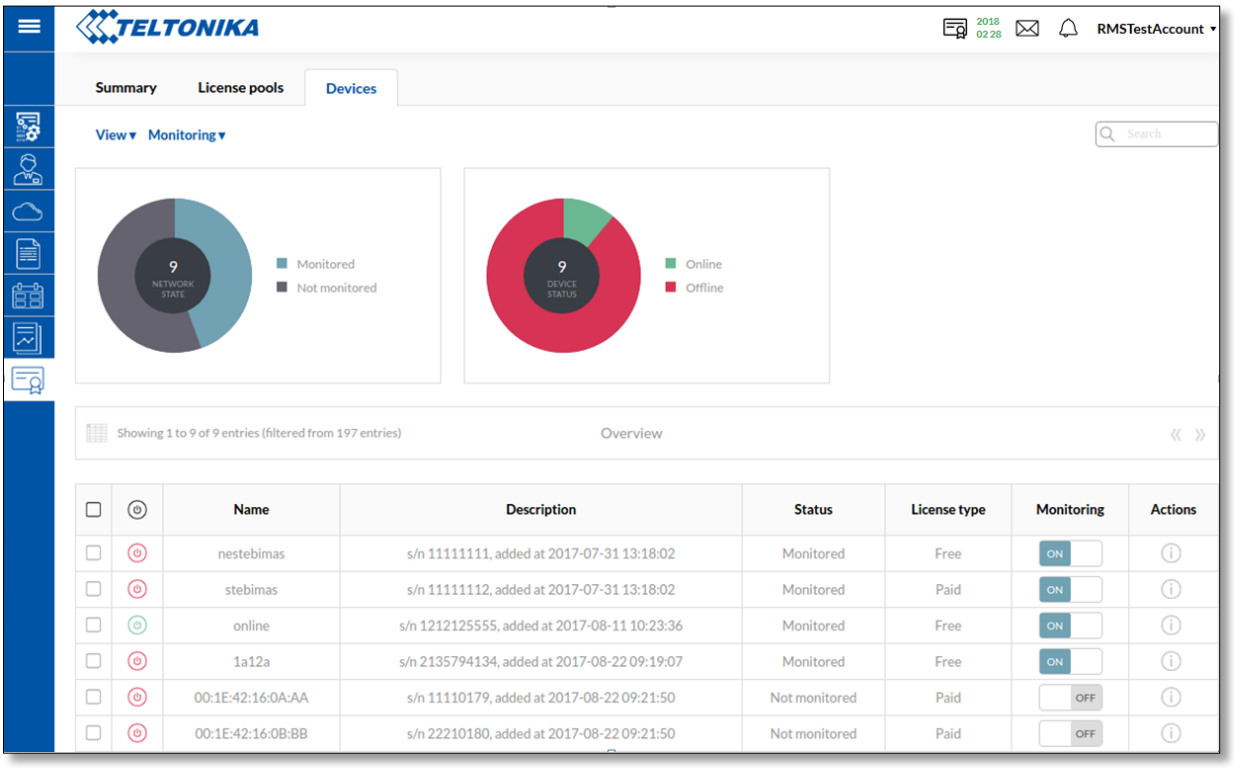
Field name	Explanation
Paid licenses	Number of licenses you have used and total number over all your pools.
Free licenses	Number of free licenses you using and how many you have in total.
Monitored devices	Number of monitored devices and all your devices in RMS.
License coverage	This date is calculated 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.



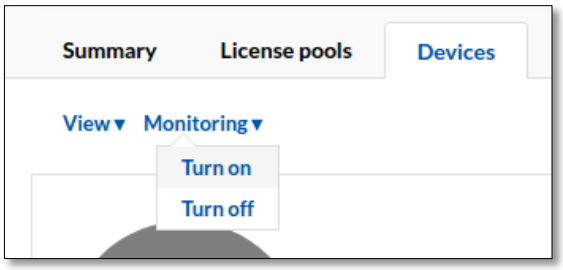
Field name	Explanation
Pool name	Unique pool name to identify your license pools.
Date acquired	The date when you have bought license pool.
Number of licenses	The number of licenses you have bought with this pool.
Used licenses	The number of licenses you have used from this pool.
Reserved	The number 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.



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**.



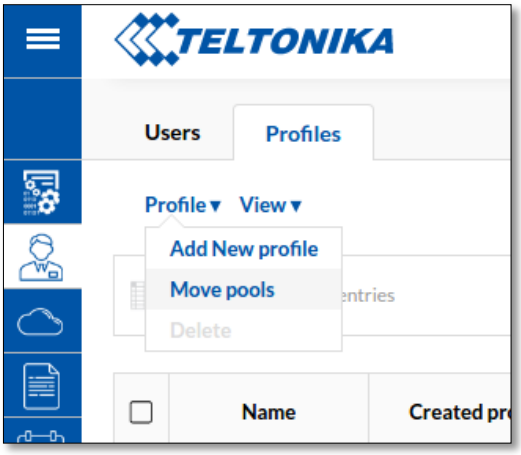
11. RMS Licenses pool for Admin

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

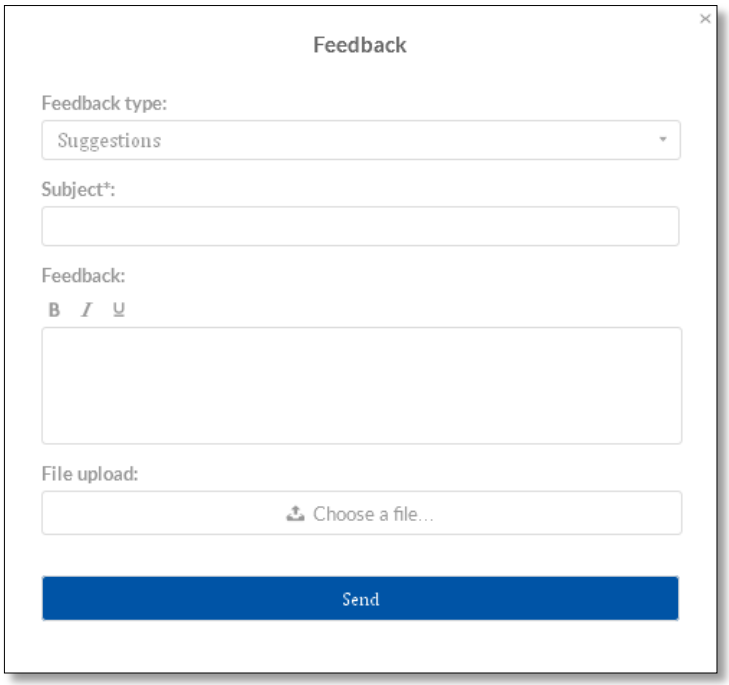
As admin you can give some of you licenses to your child company but you can not return them back until you delete child profile. Once you delete it all remaining licenses that child company have not used come back to your license pool.

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.



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.