



Rainbow Scada User Guide V-3.5

Written By:	Tugay Okatan
Date:	03-07-2017
Issue	02

TABLE OF CONTENTS

Section

3. MONITORING ACCOUNT LOGIN

3.1. OVERVIEW

3.2. MENU

- 3.2.1. Show Device Position**
- 3.2.2. Show Device Values**
- 3.2.3. Show Device Analysis**
- 3.2.4. Show Device Options**
- 3.2.5. Move Device to Position**

4. TOOLS

4.1. Tool

- 4.1.1. Change Password**
- 4.1.2. Search by Engine Serial Number**
- 4.1.3. Device Statistics**
- 4.1.4. Device Inventory**
- 4.1.5. Toggle Icon Filter**
- 4.1.6. Toggle Population**
- 4.1.7. Toggle Alarm Table**

4.2. Report

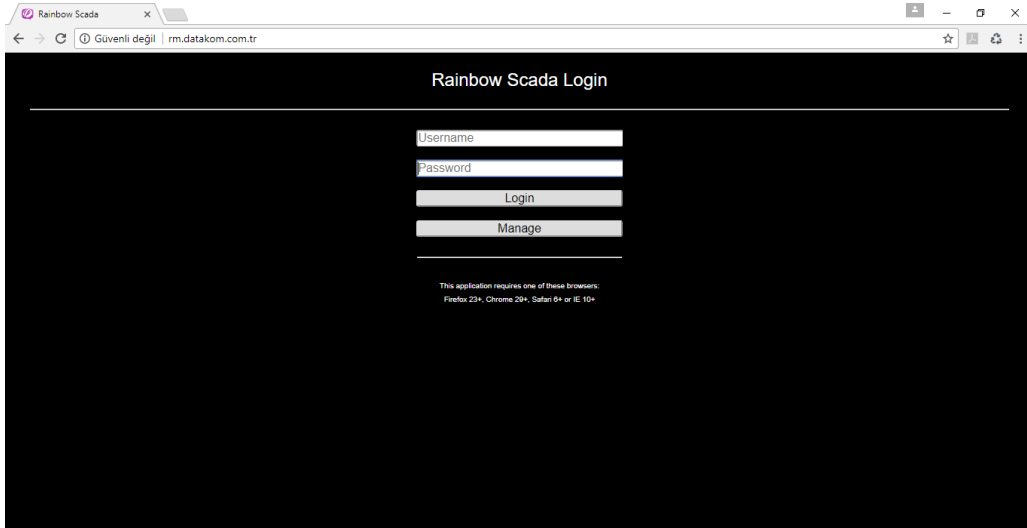
- 4.2.1. Meter Report**
- 4.2.2. Power Display**
- 4.2.3. Alarm Display**
- 4.2.4. General Report**
- 4.2.5. User Logs**
- 4.2.6. Device Logs**
- 4.2.7. Early Warning**

4.3. Language Selection

3. MONITORING ACCOUNT LOGIN

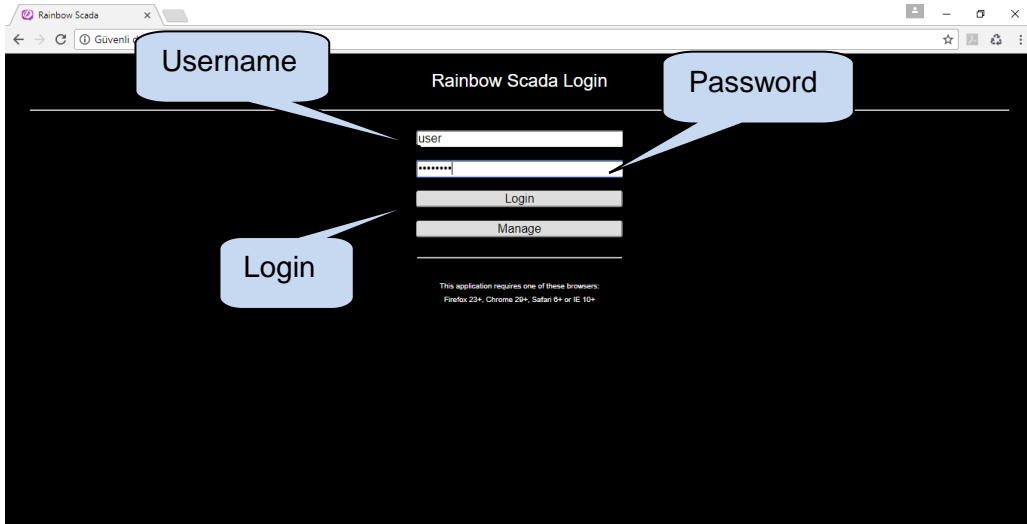
Click on the below link to access to Rainbow Scada:

<http://rm.datakom.com.tr/>

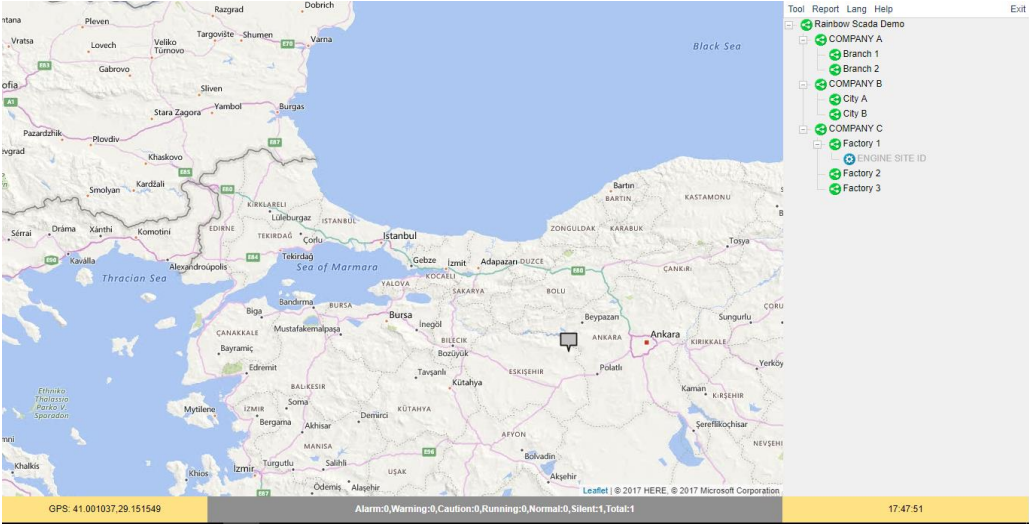



Rainbow Scada application requires Firefox 23+, Chrome 29+, Safari 6+ or IE 10+

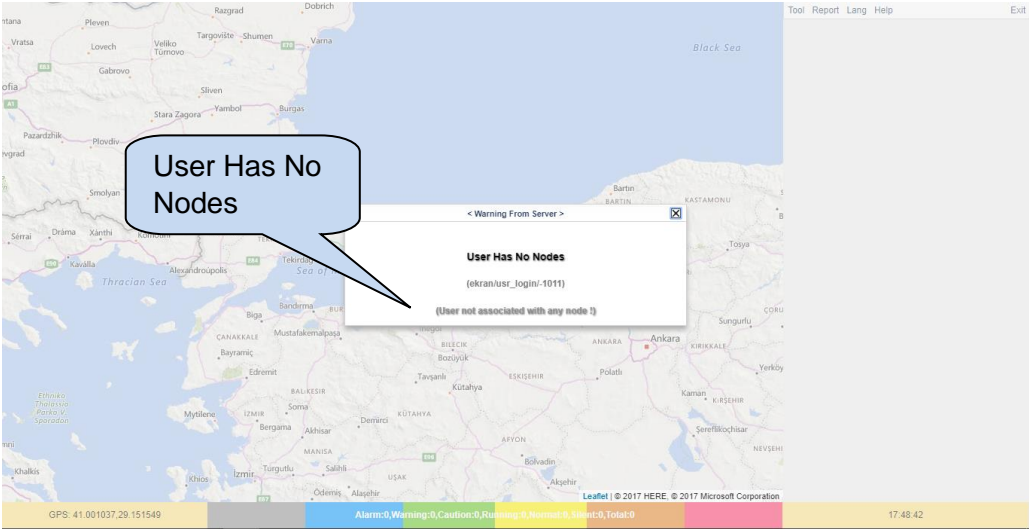
Type user name and password and click **Login**.



Main screen of the monitoring page will be viewed.



 If the account has no nodes, “User Has No Nodes” message will appear.





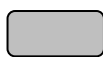


3.1. OVERVIEW

Every device is represented by a colour box, both on the map and on the right hand tree structure.

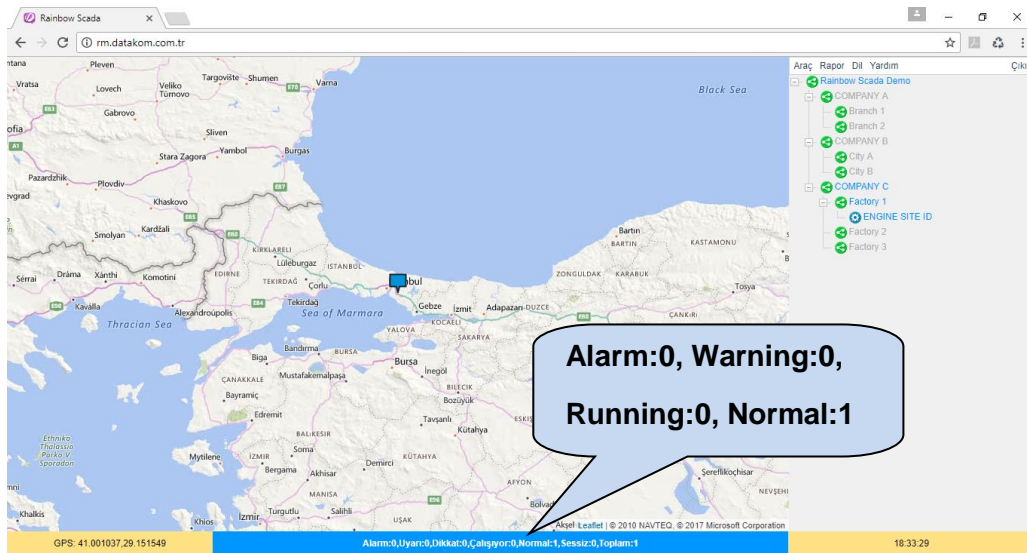
Colors on the map are sorted so that the most important information overrides other information.

On the right hand side tree structure, a controller with a fault condition will turn all upper levels to this color.

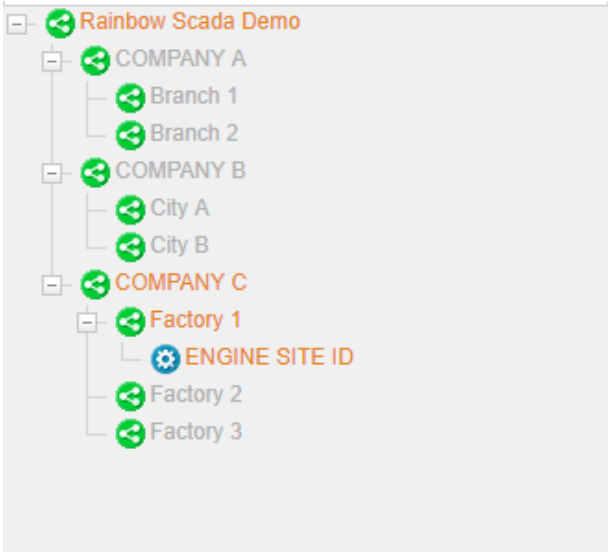
The color coding is as follows:

-  **RED:** The controller has a high priority fault condition (shutdown or loaddump alarm)
-  **ORANGE:** The controller has a low priority fault condition (a warning)
-  **GREY:** The controller has stopped communication with the Rainbow Scada program.
-  **GREEN:** The genset is running, there is no fault condition.
-  **BLUE:** The controller is at rest, genset is not running, there is no fault condition.

The detailed number of controllers are written under the map



As Engine Site ID controller is orange, indicating a warning condition, then factory 1, Company C, Rainbow Scada Demo become orange.



If a controller is clicked on the Map, the information screen will be opened.

Device Values (D500 DEMO)

Summary Information Genset Mains Engine Alarms Control Outputs

Mains L1 : 223.5 V	Genset L1 : 223.4 V	Battery Voltage : 13.50 Vdc
Mains L2 : 220.2 V	Genset L2 : 220.3 V	Engine RPM : 1498 RPM
Mains L3 : 225.4 V	Genset L3 : 225.2 V	Oil Pressure : 3.5 Bar / 50.7 Psi
Mains L1-L2 : 385.6 V	Genset L1-L2 : 385.5 V	Coolant Temp : 69.5 °C / 157.1 °F
Mains L2-L3 : 385.5 V	Genset L2-L3 : 385.3 V	Oil Temp : 69.5 °C / 157.1 °F
Mains L3-L1 : 387.7 V	Genset L3-L1 : 387.5 V	Fuel Level : 51.1 %
Mains I1 : 0.0 A	Genset I1 : 205.2 A	Engine Run Hours : 2416.81 Hrs
Mains I2 : 0.0 A	Genset I2 : 289.4 A	Total kWh : 333366.0 kWh
Mains I3 : 0.0 A	Genset I3 : 0.0 A	Total kVArh (Ind) : 0.1 kVArh
Mains Freq : 49.96 Hz	Genset Freq : 49.96 Hz	Total kVArh (Cap) : 50331.2 kVArh
Mains P Total : 0.0 kW	Genset P Total : 109.1 kW	Hours to Srvt : -2166.81 Hrs
Mains Q Total : 0.0 kVAR	Genset Q Total : -6.6 kVAR	Days to Srvt : 79.20 Day
Mains S Total : 0.0 kVA	Genset S Total : 109.4 kVA	
Mains Pwr Factor : 1.000	Genset Pwr Factor : 0.998	

3.2. MENU

Right-click on a device to view a menu for the list of possible actions related to that device.

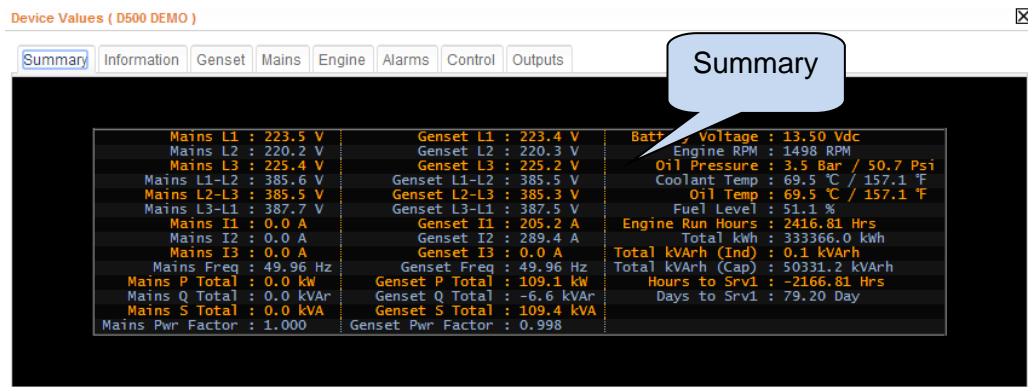
3.2.1. Show Device Position

Click **Show Device Position** to align the device at the center of the map.

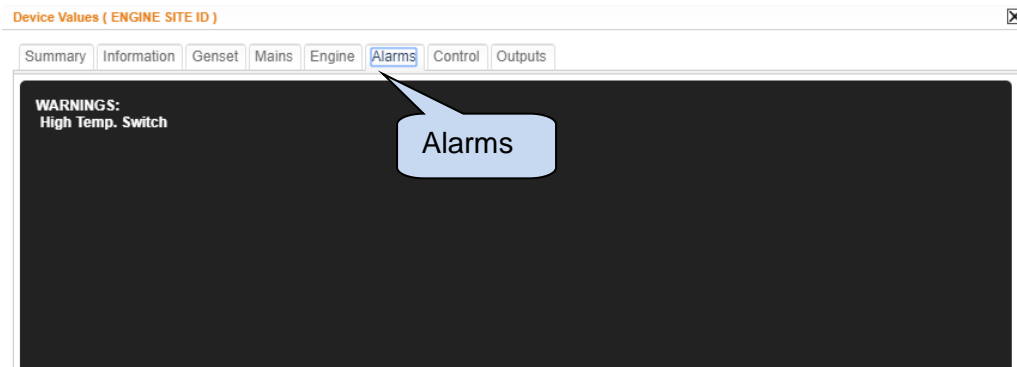


3.2.2. Show Device Values

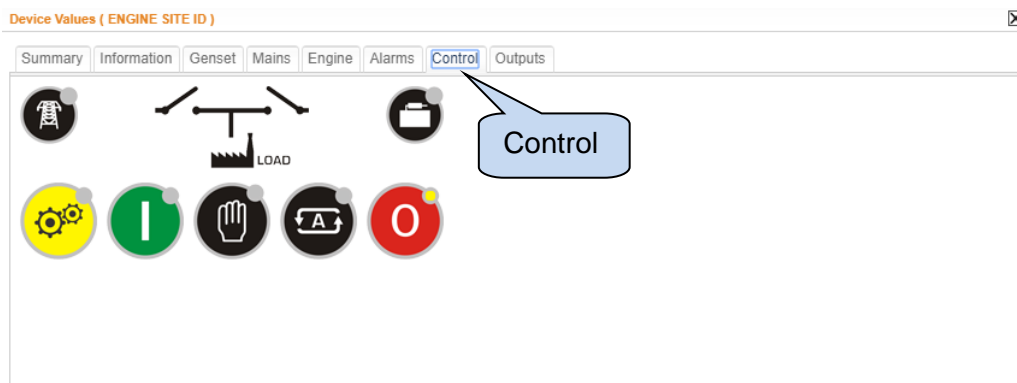
Select **Show Device Values** to view the summary screen. Most vital information will be viewed on this screen.



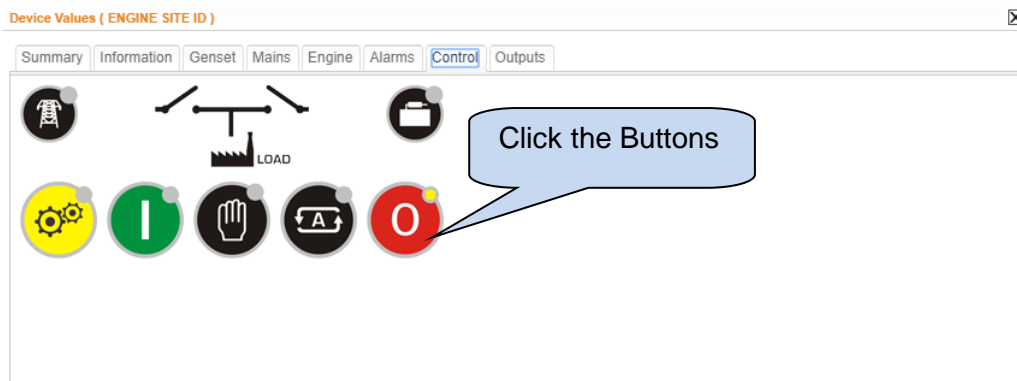
Alarm screen will display all existing alarms on the controller.



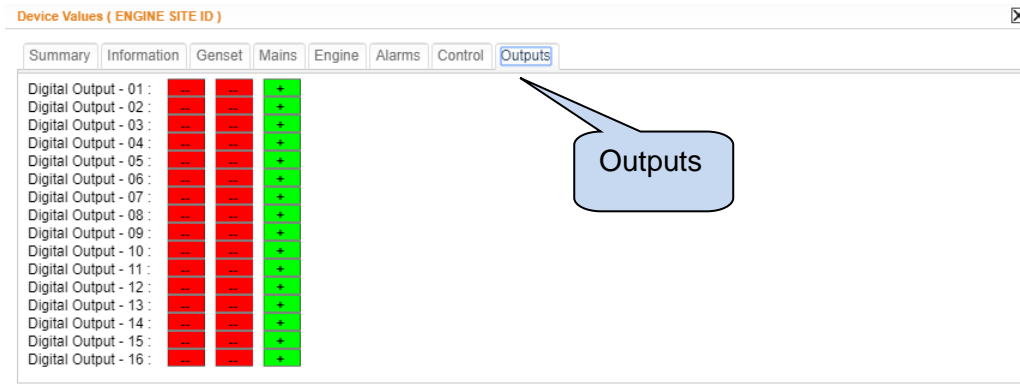
Click **Control** tab, Keypad screen will be viewed.



This Keypad is functional but not real-time like a physical Keypad. Depending on the connection type and quality, feedback might lag.




Click **Outputs** tab to view remote controlled digital outputs screen.



The D-500 genset controller offers 16 externally controllable digital output functions.

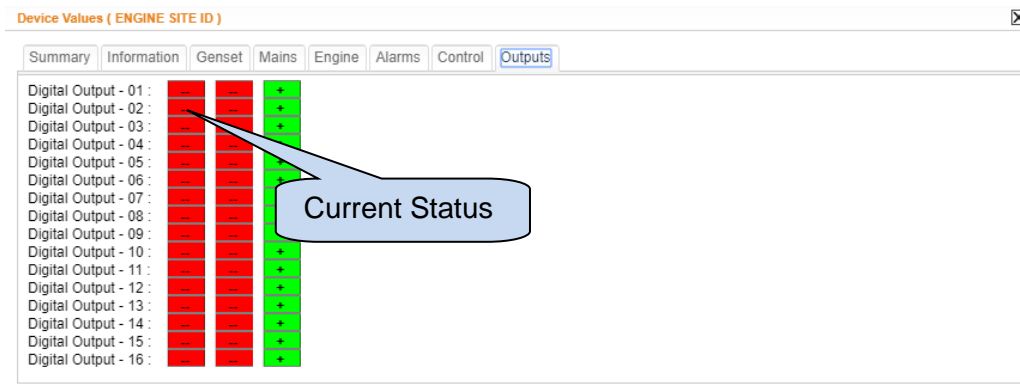
These output functions have no effect in the operation of the unit; however they can be redirected to any digital output, allowing remote control of functions or external devices.

The remote control of these outputs are enabled through Rainbow Scada remote control functions.

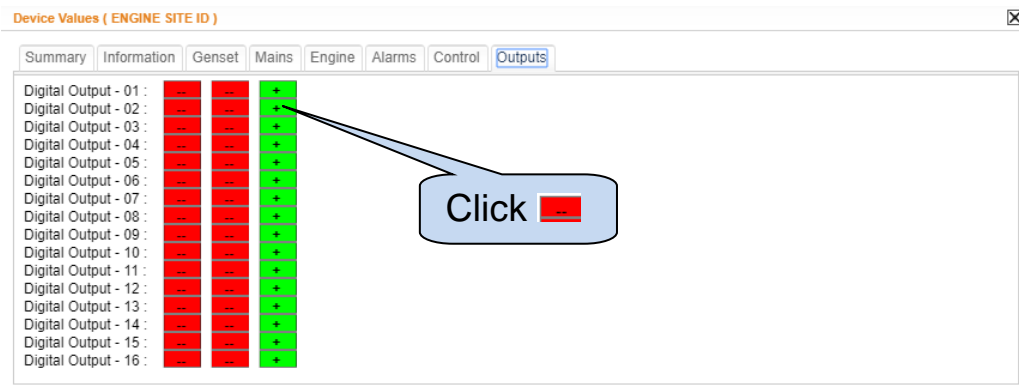


Output status are kept in a non-volatile memory and are not affected by power failures.

Click  button to activate the remote output.

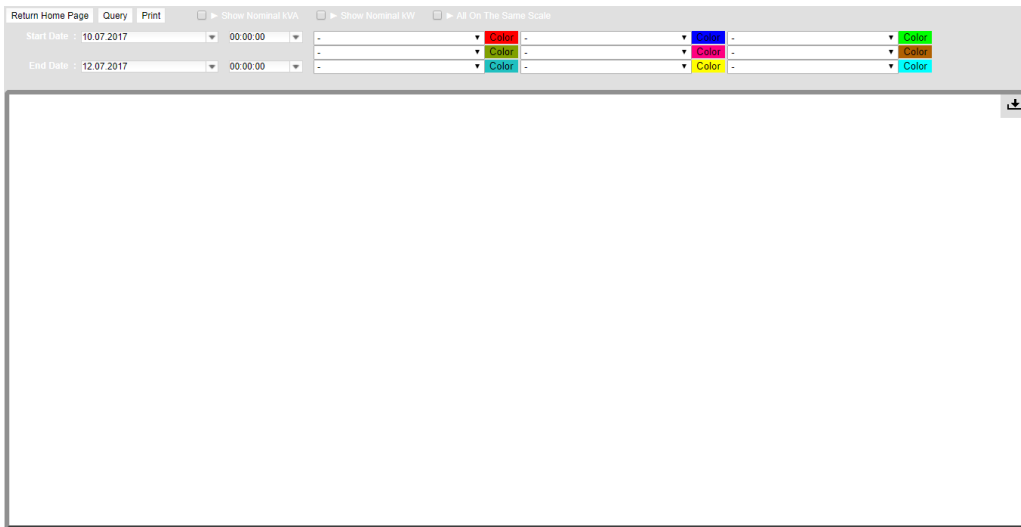


Click  button to disable the remote output.



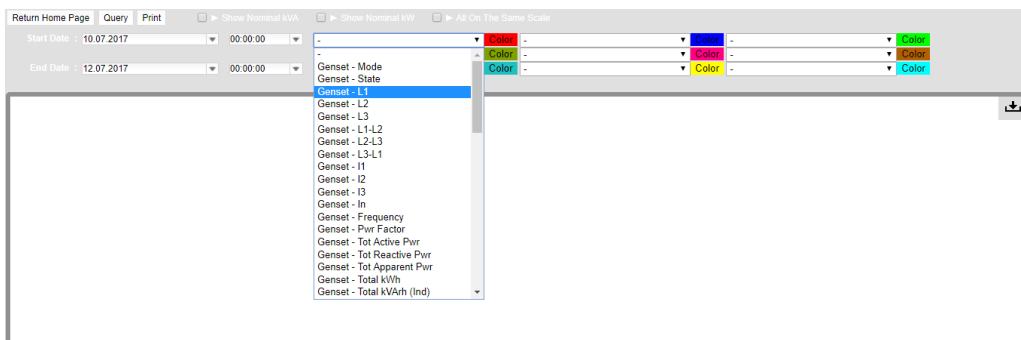
3.2.3. Show Device Analysis

Click **Show Device Analysis** to view analysis page.

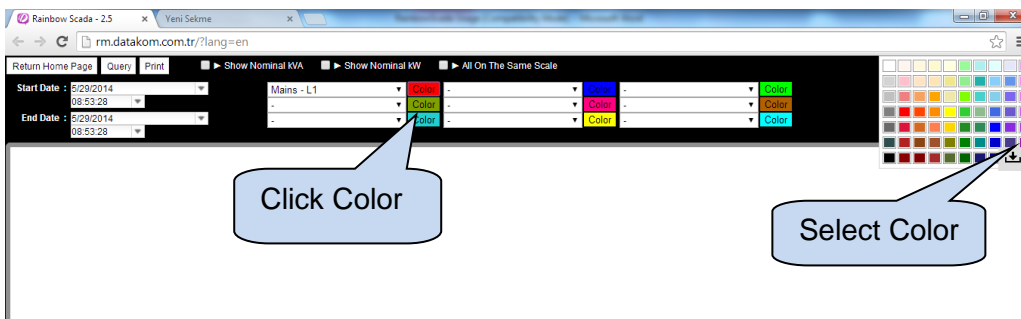


Device analysis function allow users to access stored data on server. It is possible to analyse past performance of your system.

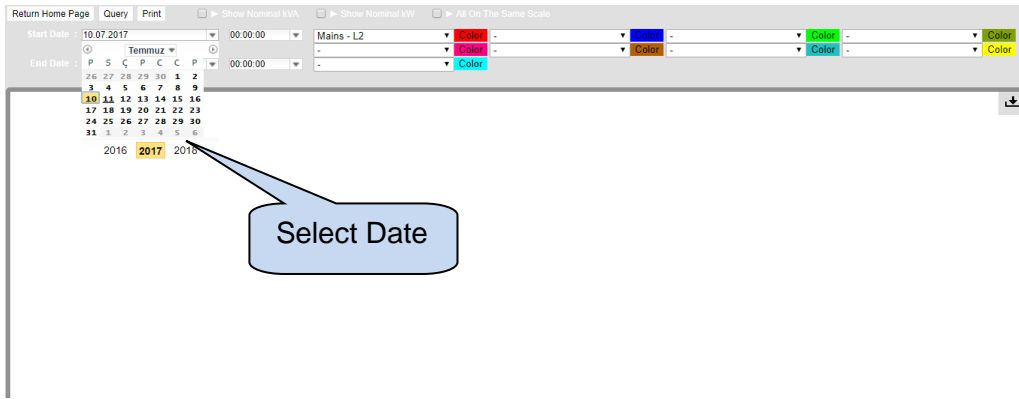
9 different data can be displayed on one screen by selecting from boxes.



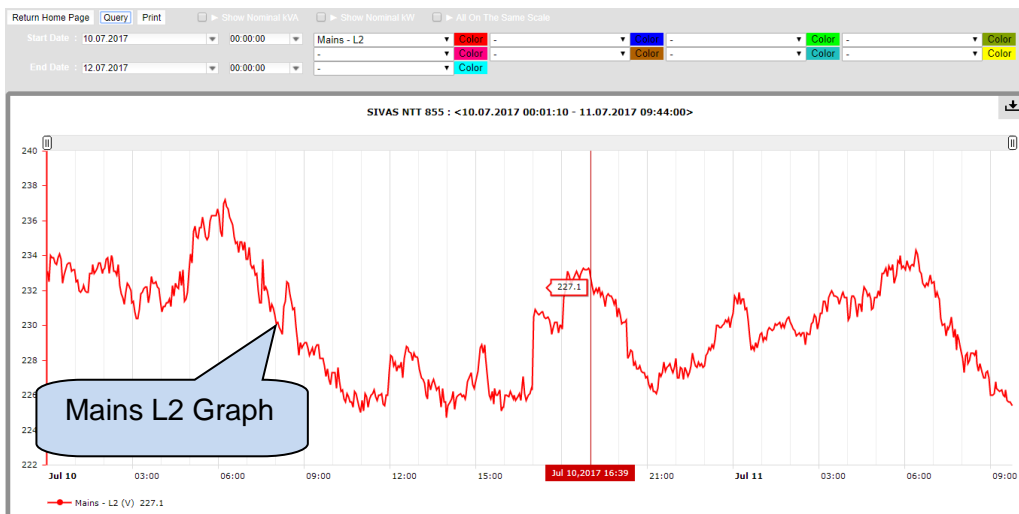
Color coding of the graphs can be edited.



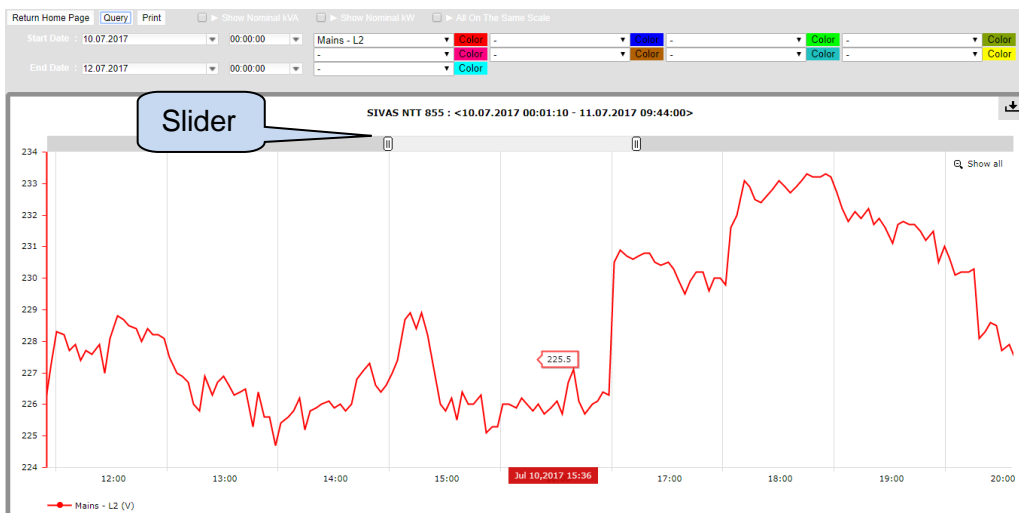
Select start date and end date.



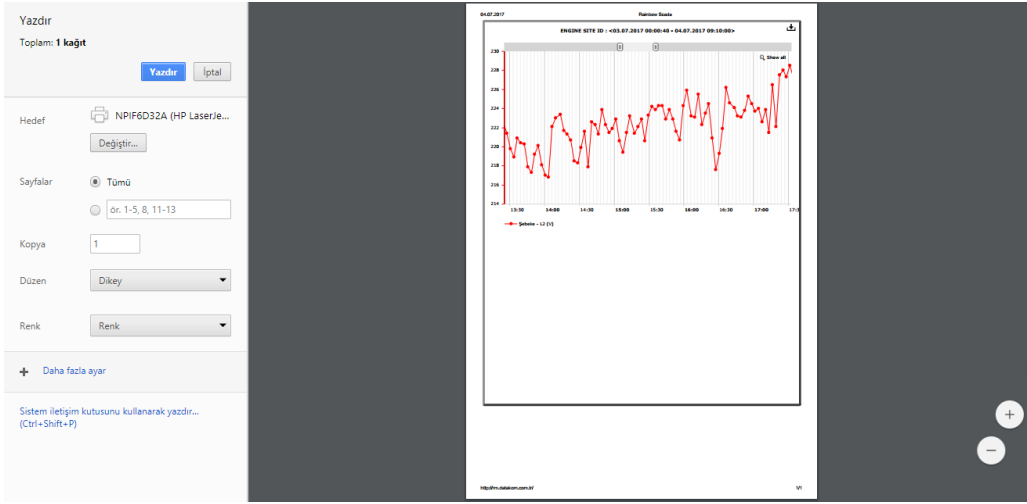
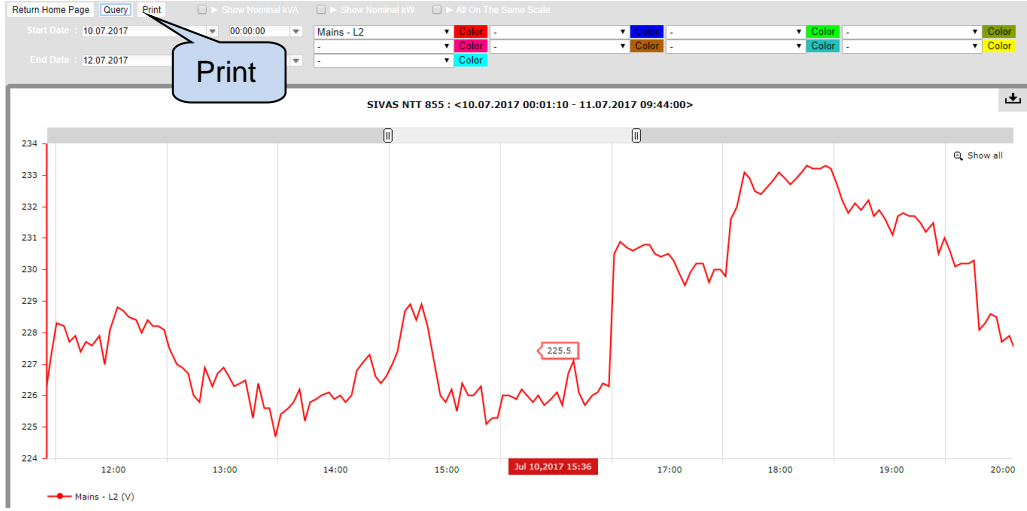
Click **Query** button. The graph will be generated within selected dates.



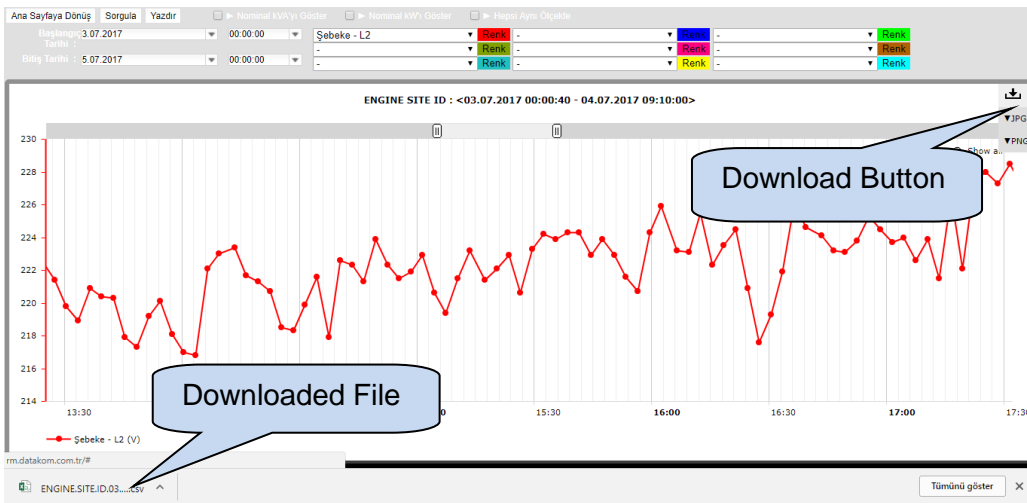
Use sliders to Zoom in and out.



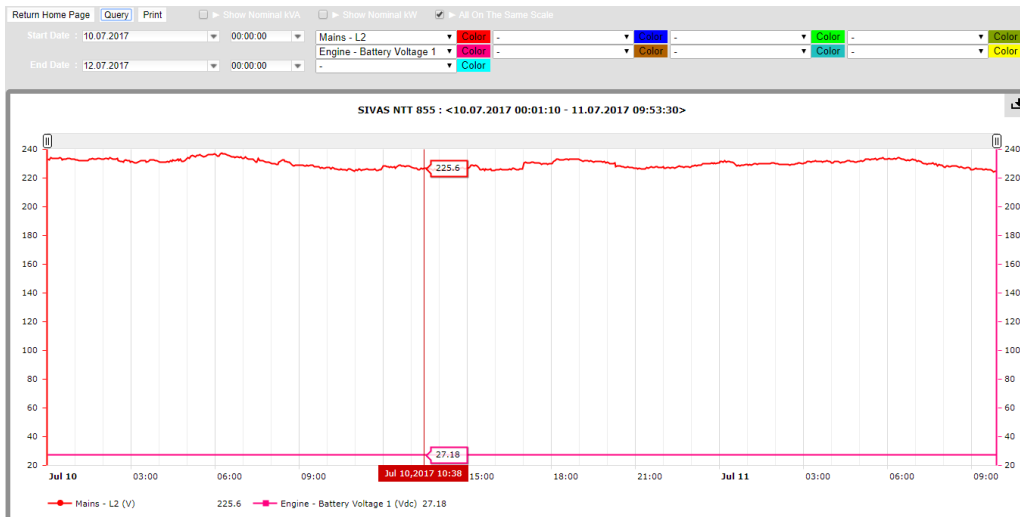
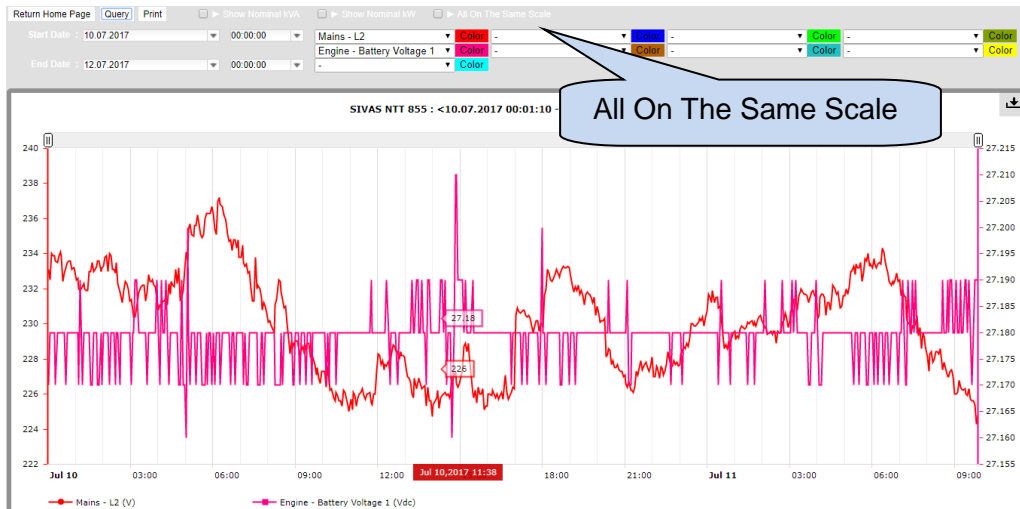
Click **Print** button to print the displayed graph.



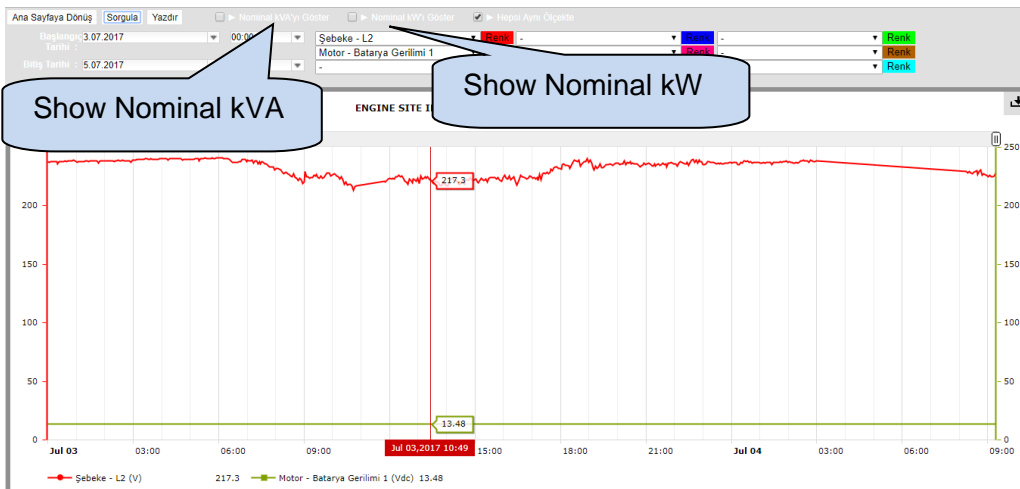
Click download to save the graph as .csv, jpg or png file.

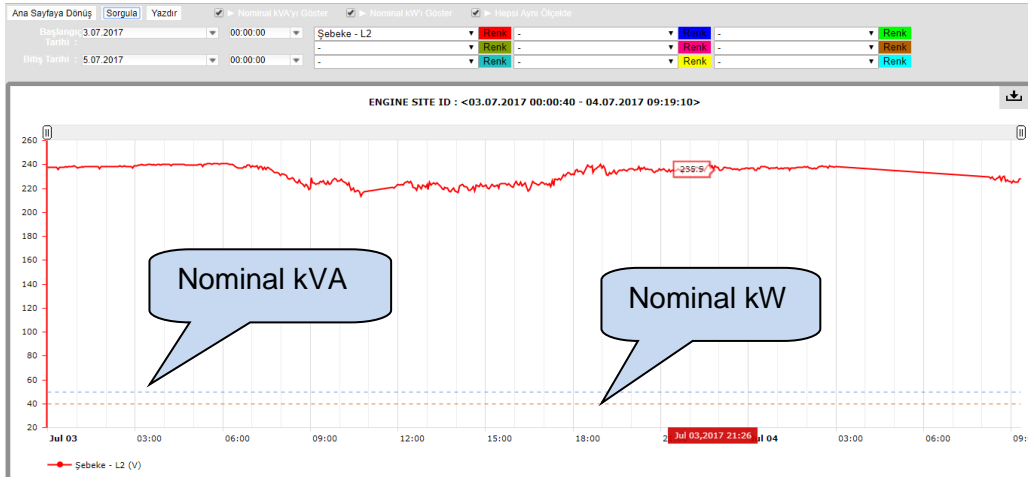


Select **All On The Same Scale** to display all the graphs on the same scale.

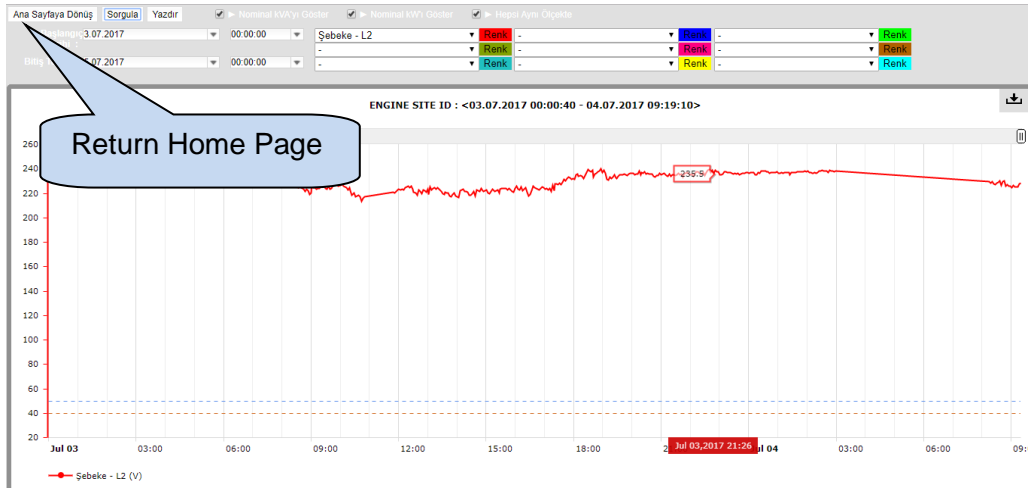


If Show Nominal kVA and show Nominal kW are selected, nominal kVA and kW values are displayed on the same graph.





Click **Return Home Page** for the main screen.



3.2.4. Show Device Options

Select **Show Device Options** to view device options. List of available functions will be displayed.



Site ID and Unique ID number will be displayed on this screen.

A screenshot of a 'Device Options' dialog box. The dialog has a title bar 'Device Options'. It contains several input fields and checkboxes. Two blue callout boxes are present: one pointing to the 'Site-ID' field which contains the text 'ENGINE SITE ID', and another pointing to the 'Unique-ID' field which contains the hexadecimal string '1BF0FF0FC994BEAE6A196056'. Other fields include 'GPS Lock' (checked), 'Latitude' (39,83385), 'Longitude' (31,717529), 'Altitude' (0), 'Time Update' (unchecked), 'Move Notify' (unchecked), 'Nominal (kw)' (0), 'Nominal (kVA)' (0), and 'Battery End' (0). At the bottom right, there are 'Save' and 'Cancel' buttons.

If GPS Lock is selected, the device position will be locked.

The screenshot shows the 'Device Options' form with the following fields and values:

Site-ID:	ENGI
Unique-ID:	1BF0FF0FC9948EAE6A196056
GPS Lock:	<input checked="" type="checkbox"/>
Latitude:	39,83385
Longitude:	31,717529
Altitude:	0
Time Update:	<input type="checkbox"/>
Move Notify:	<input type="checkbox"/>
Nominal (kW):	0
Nominal (kVA):	0
Battery End:	0

Buttons: Save, Cancel

A callout box labeled 'GPS Lock' points to the checked checkbox.

It is possible to manually enter Latitude, Longitude and Altitude values.

The screenshot shows the 'Device Options' form with the following fields and values:

Site-ID:	ENGINE S
Unique-ID:	1BF0FF0FC9948EAE6A196056
GPS Lock:	<input checked="" type="checkbox"/>
Latitude:	39,83385
Longitude:	31,717529
Altitude:	0
Time Update:	<input type="checkbox"/>
Move Notify:	<input type="checkbox"/>
Nominal (kW):	0
Nominal (kVA):	0
Battery End:	0

Buttons: Save, Cancel

Callout boxes labeled 'Latitude', 'Longitude', and 'Altitude' point to their respective input fields.

If Time Update is selected, the device data-time will be automatically synchronized to the server.

The screenshot shows the 'Device Options' form with the following fields and values:

Site-ID:	ENGINE SITE ID
Unique-ID:	1BF0FF0FC9948EAE6A196056
GPS Lock:	<input checked="" type="checkbox"/>
Latitude:	39,83385
Longitude:	31,717529
Altitude:	0
Time Update:	<input type="checkbox"/>
Move Notify:	<input type="checkbox"/>
Nominal (kW):	0
Nominal (kVA):	0
Battery End:	0

Buttons: Save, Cancel

A callout box labeled 'Time Update' points to the unchecked checkbox.

If Move Notify is selected, the system will send e-mails to defined e-mail addresses if the device geo-position is changed. This is useful for mobile devices.

Device Options

Site-ID: ENGINE SITE ID

Unique-ID: 1BF0FF0FC994BEAE6A196056

GPS Lock:

Latitude: 39,83385

Longitude: 31,717529

Altitude: 0

Time Update:

Move Notify: **Move Notify**

Nominal (kW): 0

Nominal (kVA): 0

Battery End: 0

Save Cancel

If Nominal kW and kVA are entered, these values can be displayed on analysis screen.

Device Options

Site-ID: ENGINE SITE ID

Unique-ID: 1BF0FF0FC994BEAE6A196056

GPS Lock:

Latitude: 39,83385

Longitude: 31,717529

Altitude: 0

Time Update:

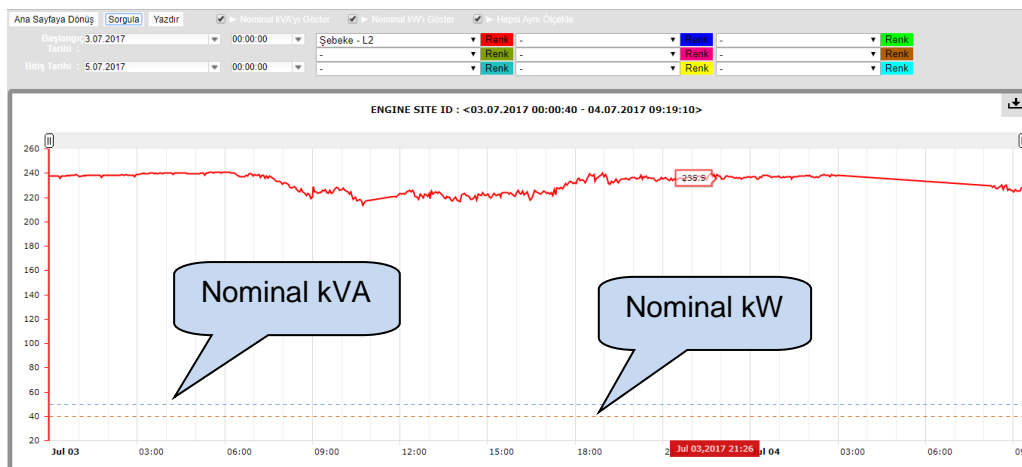
Move Notify:

Nominal (kW): 0 **Nominal kW**

Nominal (kVA): 0 **Nominal kVA**

Battery End: 0

Save Cancel



Click **Save** button to save the changes.

Device Options [X]

Site-ID:

Unique-ID:

GPS Lock:

Latitude:

Longitude:

Altitude:

Time Update:

Move Notify:

Nominal (kW):

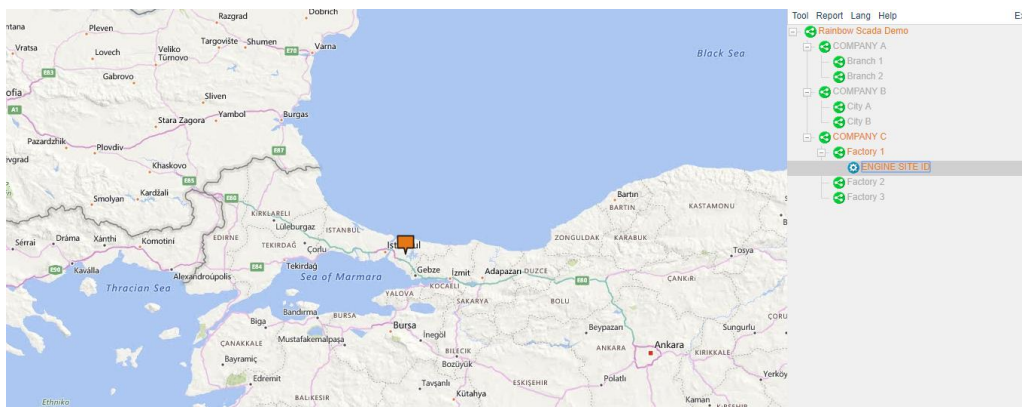
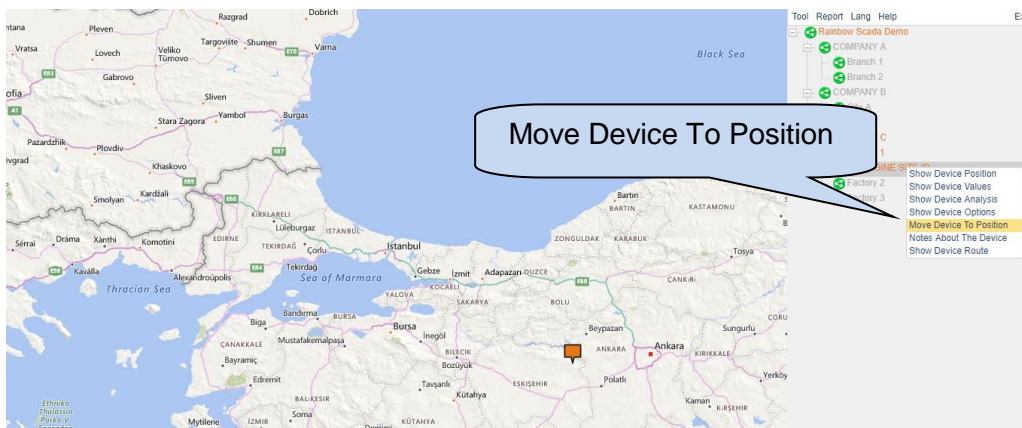
Nominal (kVA):

Battery End:

Save **Cancel**

3.2.5. Move Device To Position

Click **Move Device To Position** to relocate the icon of this controller to the position of the Last Mouse Click.



If GPS Lock is selected, Position Locked message will be displayed on the screen.

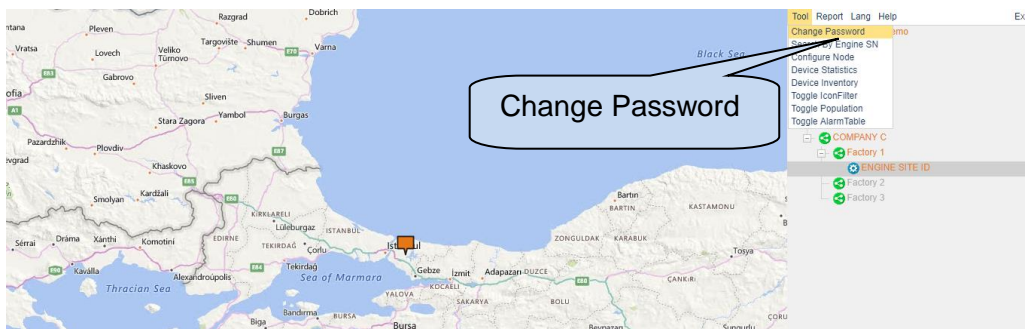


4. TOOLS

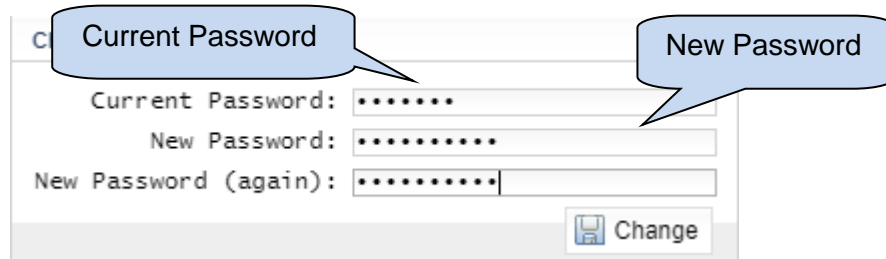
4.1. Tool

4.1.1 Change Password

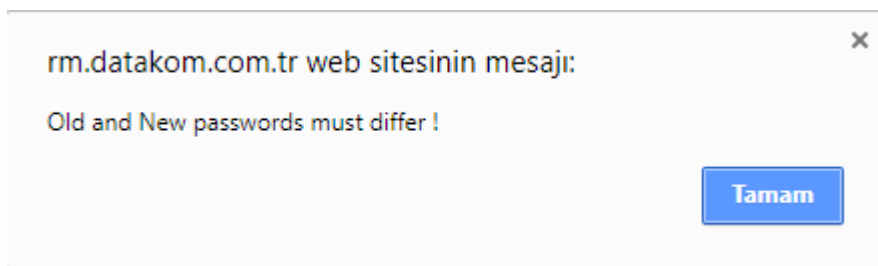
It is possible to change password of the remote monitoring account. Click **Tool**, and click **Change Password**.



Enter current password, new password and then click **Change**.

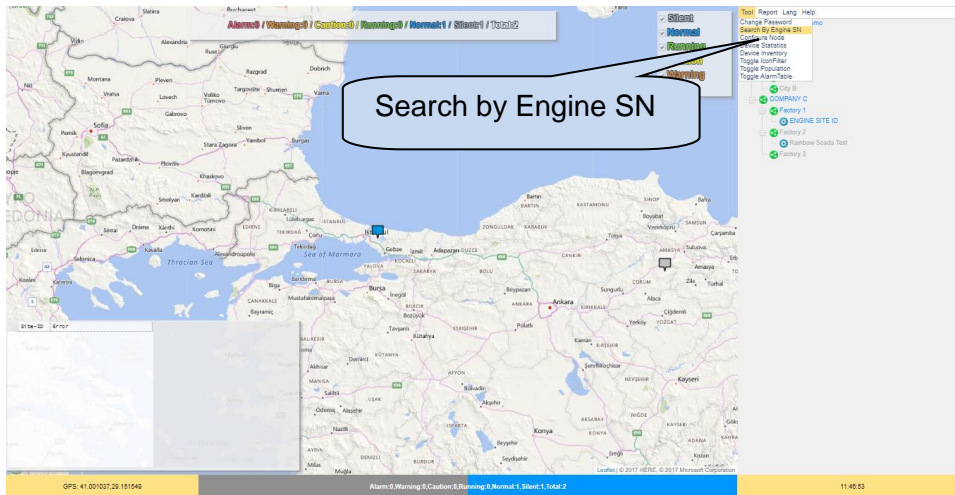
A screenshot of a password change form. The form has three input fields: 'Current Password', 'New Password', and 'New Password (again)'. Each field contains a series of dots representing masked characters. A blue callout box with the text 'Current Password' points to the first field. Another blue callout box with the text 'New Password' points to the second field. At the bottom right of the form, there is a button labeled 'Change' with a floppy disk icon.

If the same password is entered, warning message will be viewed.

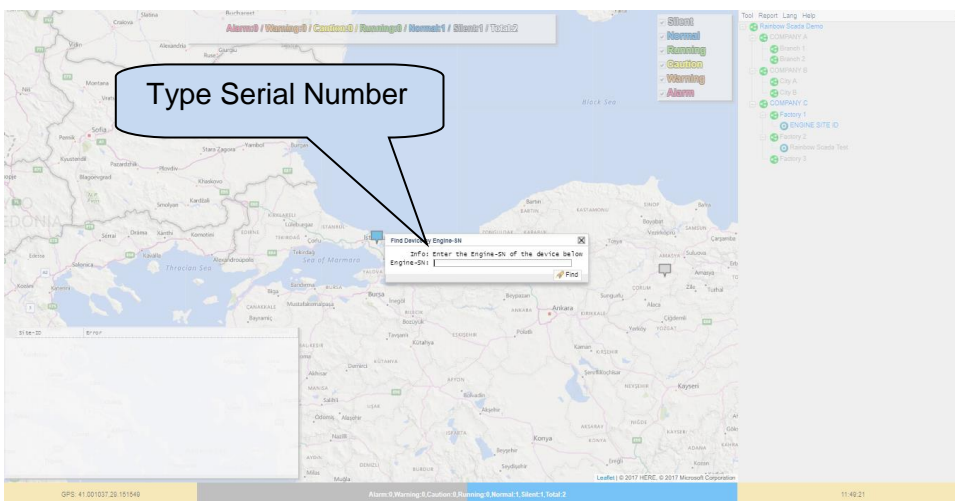


4.1.2 Search by Engine Serial Number

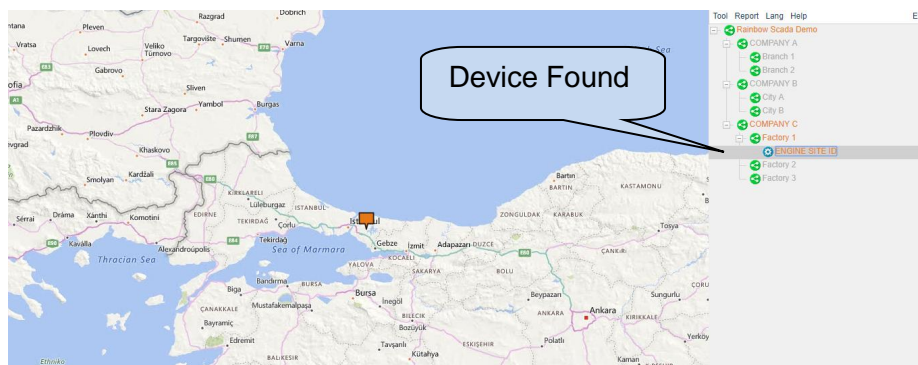
It is also possible to find the device once Unique ID is known. Click **Tool**, and click **Search by Engine SN**.



New window will appear asking the serial number to search. Please type the serial number of the unit.

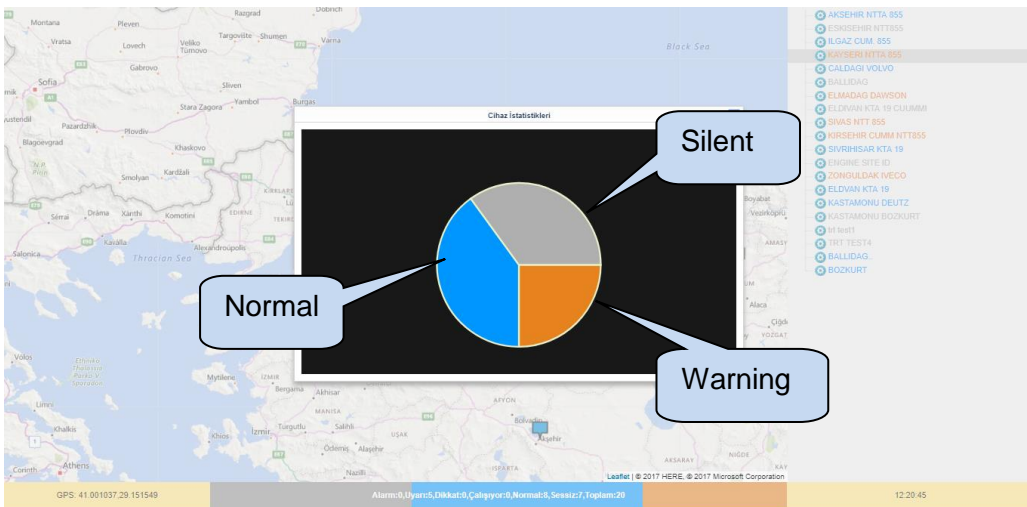
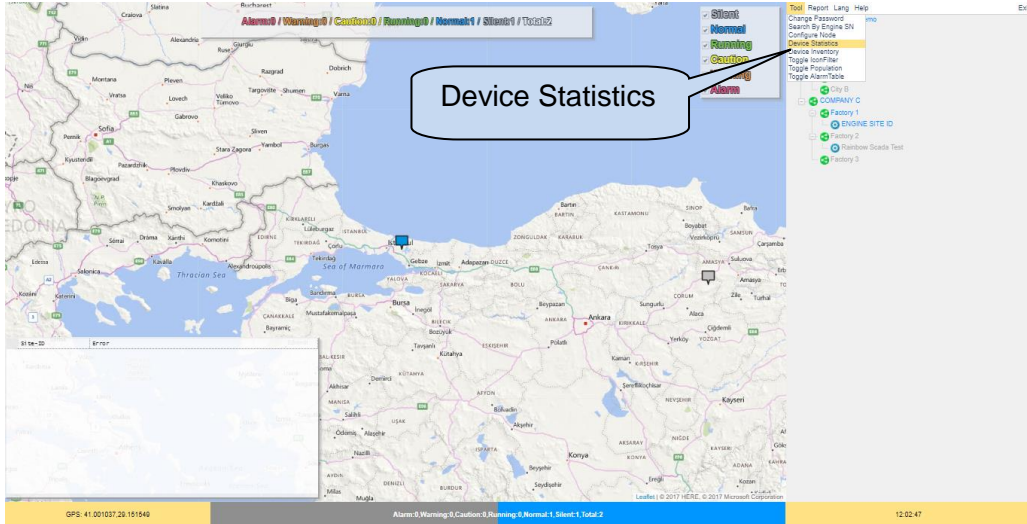


Once the entered serial number is matched with the unit, it will be highlighted on remote monitoring account.



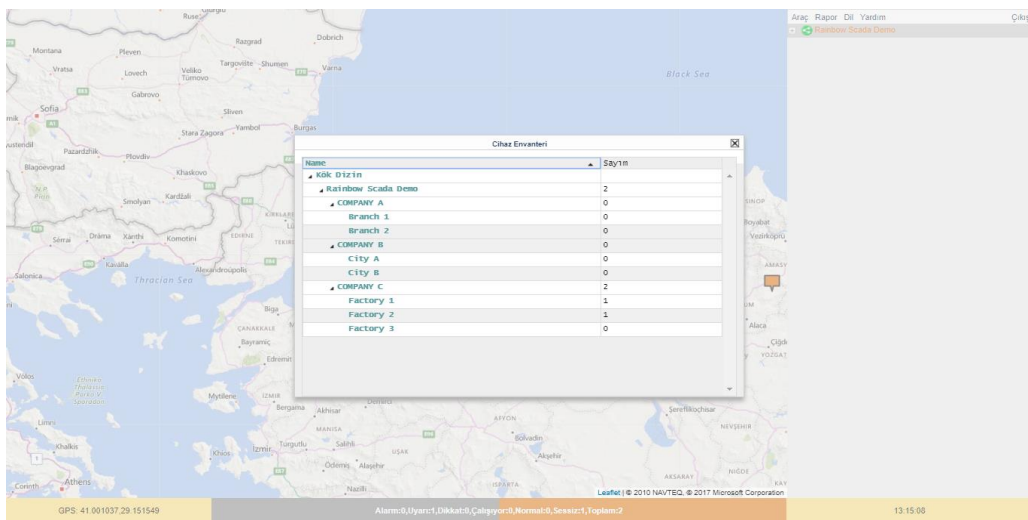
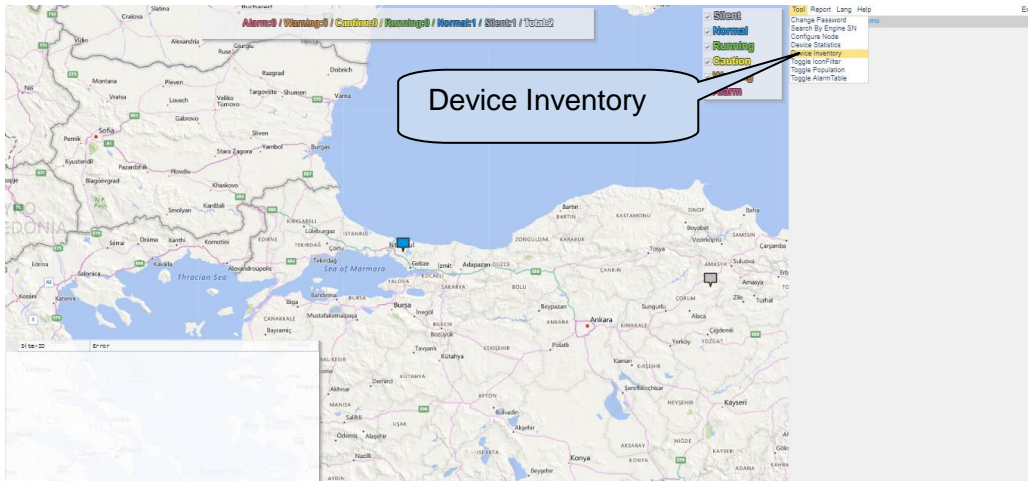
4.1.3 Device Statistics

Device Statistics tab under the Tool menu displays statuses of all devices graphically. Click Tool, and click Device Statistics tab.



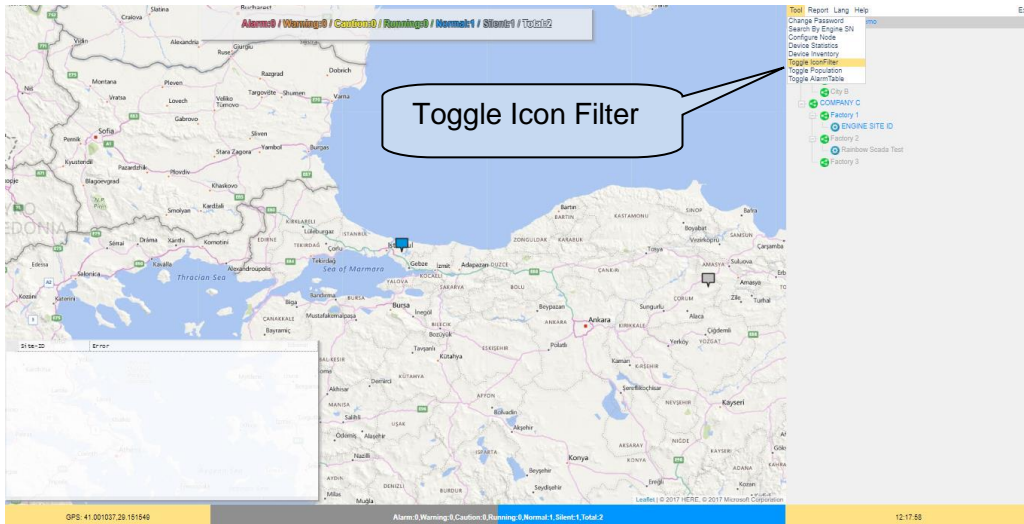
4.1.4 Device Inventory

Device Inventory tab under the **Tool** menu displays the number of devices linked with each node in detail. Click a node to display devices connected to it. After that, click **Tool**, and click **Device Inventory** tab.

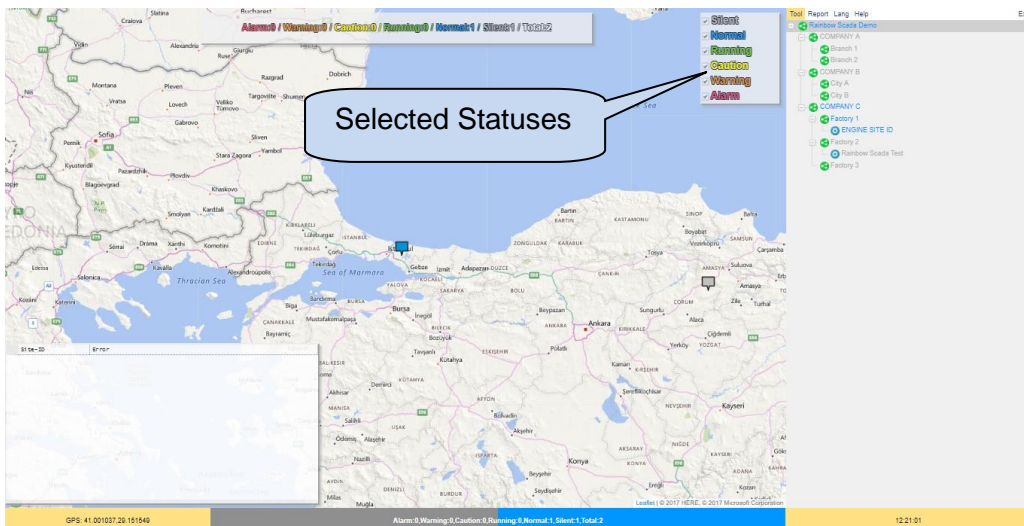


4.1.5 Toggle Icon Filter

Devices on remote monitoring system can be filtered with respect to their status providing ease of use. Filtered statuses are; alarm, warning, caution, silent, running, and normal. Filtering can be performed by clicking **toggle icon filter** under **tool** menu.

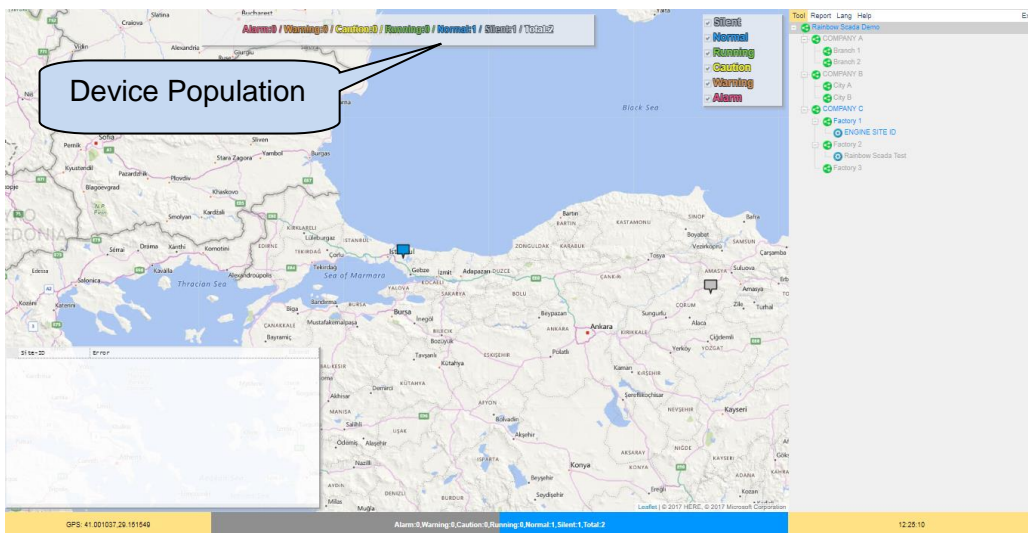
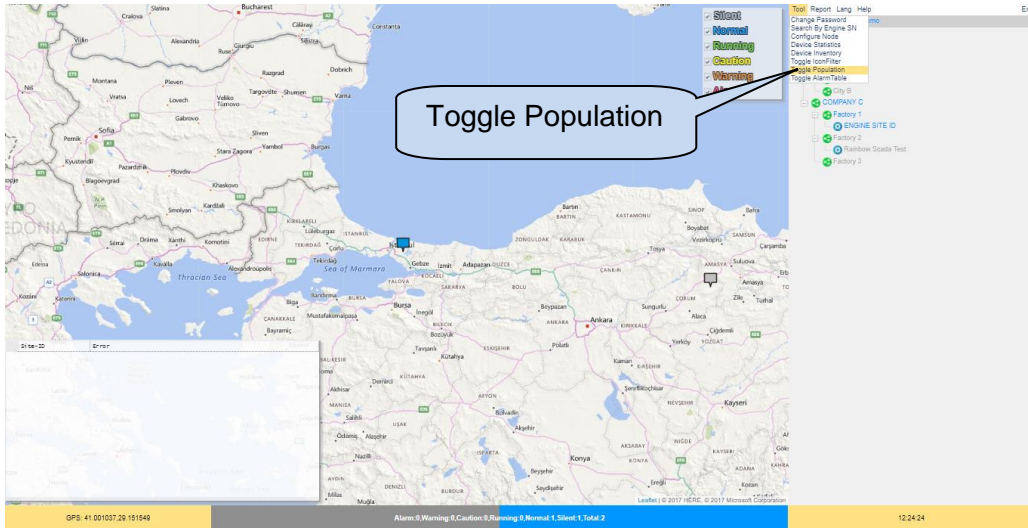


New window will appear allowing users to filter statuses of the devices. You can select statuses that you would like to filter. Only devices with selected statuses will be displayed on remote monitoring system.



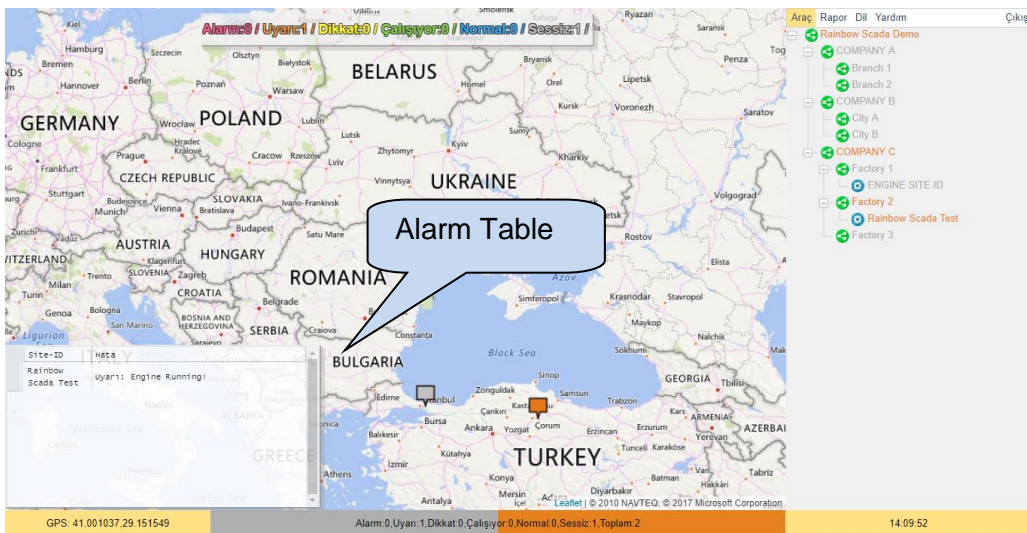
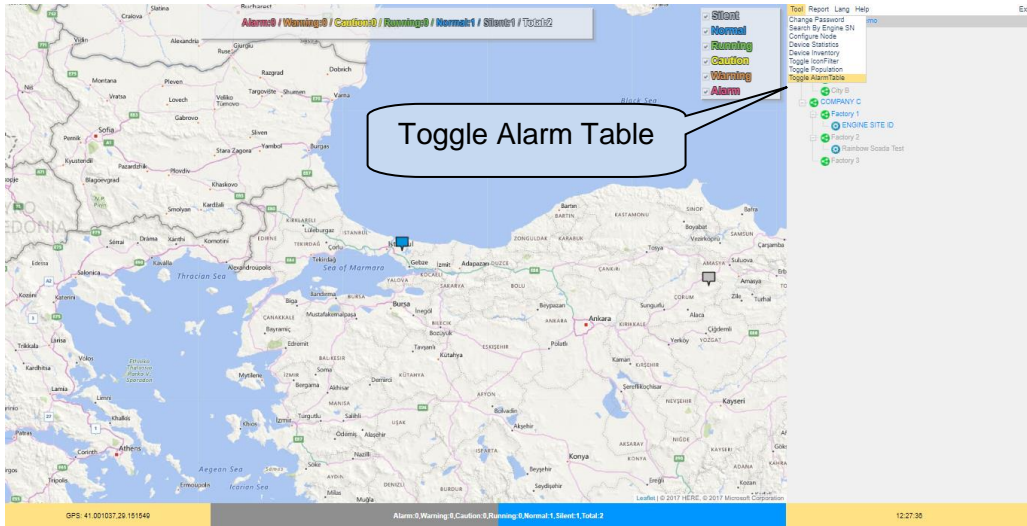
4.1.6 Toggle Population

Toggle Population tab under **tool** menu will create a new window on the remote monitoring system, which displays device population indicating their statuses.



4.1.7 Toggle Alarm Table

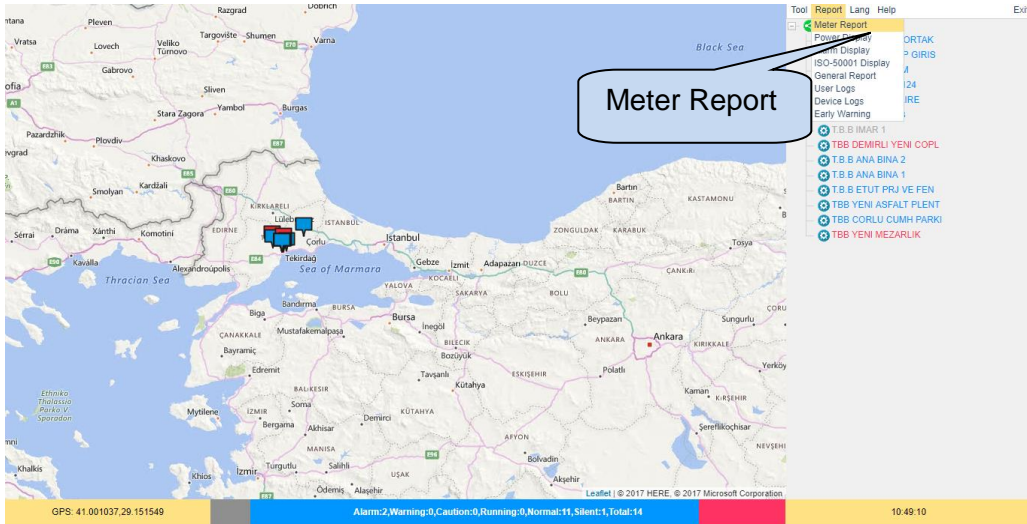
Toggle Alarm Table tab under the **tool** menu will create a new window on the remote monitoring system, which has a list of alarms and warnings of all devices.



4.2. Report

4.2.1. Meter Report

If account has metering devices, click Meter Report to view measurements on one screen.



Inductive/capacitive percentages and kWh measurement are displayed on this screen.

Site Info	Serial NO	Status	Start Date	% Ind.	% Cap.	kwh
T. B. B İMAR 2 VE ORTAK	1234567890	NORMAL	Mon Jul 10 2017	0.4	1.8	2710.0
TBB SAHIL OZG P GIRIS	1234567890	NORMAL	Mon Jul 10 2017	0.1	0.1	10790.0
T. B. B BİLGİ İSLEM	1234567890	NORMAL	Mon Jul 10 2017	0.1	0.7	20690.0
DATAKOM/DFCOL24	1234567890	NORMAL	Mon Jul 10 2017	0.2	0.0	11570.0
T. B. B ULASIM DAIRE	1234567890	NORMAL	Mon Jul 10 2017	1.1	4.0	17490.0
T. B. B ANA BINA 3	1234567890	NORMAL	Mon Jul 10 2017	1.4	0.0	15400.0
T. B. B İMAR 1	1234567890	WARNING	Mon Jul 10 2017	N/A	N/A	N/A
TBB DEMIRLI YENI COPL	1234567890	PENALTY	Mon Jul 10 2017	1.0	202.0	990.0
T. B. B ANA BINA 2	1234567890	NORMAL	Mon Jul 10 2017	1.1	0.6	8300.0
T. B. B ANA BINA 1	1234567890	NORMAL	Mon Jul 10 2017	1.4	0.3	8690.0
T. B. B ETUT PRJ VE FEN	1234567890	NORMAL	Mon Jul 10 2017	1.6	1.6	11220.0
TBB YENI ASFALT PLENT	1234567890	NORMAL	Mon Jul 10 2017	3.8	1.7	3460.0
TBB CORLU CUMH PARKI	1234567890	NORMAL	Mon Jul 10 2017	0.4	7.1	8180.0
TBB YENI MEZARLIK	1234567890	PENALTY	Mon Jul 10 2017	55.8	1.9	520.0

It will be easier to check reactive consumption by considering status column.

Site Info	Serial NO	Status	Start Date	% Ind.	% Cap.	kwh
T. B. B İMAR 2 VE ORTAK	1234567890	NORMAL	Mon Jul 10 2017	0.4	1.8	2710.0
TBB SAHIL OZG P GIRIS	1234567890	NORMAL	Mon Jul 10 2017	0.1	0.1	10790.0
T. B. B BİLGİ İSLEM	1234567890	NORMAL	Mon Jul 10 2017	0.1	0.7	20690.0
DATAKOM/DFCOL24	1234567890	NORMAL	Mon Jul 10 2017	0.2	0.0	11570.0
T. B. B ULASIM DAIRE	1234567890	NORMAL	Mon Jul 10 2017	1.1	4.0	17490.0
T. B. B ANA BINA 3	1234567890	NORMAL	Mon Jul 10 2017	1.4	0.0	15400.0
T. B. B İMAR 1	1234567890	WARNING	Mon Jul 10 2017	N/A	N/A	N/A
TBB DEMIRLI YENI COPL	1234567890	PENALTY	Mon Jul 10 2017	1.0	202.0	990.0
T. B. B ANA BINA 2	1234567890	NORMAL	Mon Jul 10 2017	1.1	0.6	8300.0
T. B. B ANA BINA 1	1234567890	NORMAL	Mon Jul 10 2017	1.4	0.3	8690.0
T. B. B ETUT PRJ VE FEN	1234567890	NORMAL	Mon Jul 10 2017	1.6	1.6	11220.0
TBB YENI ASFALT PLENT	1234567890	NORMAL	Mon Jul 10 2017	3.8	1.7	3460.0
TBB CORLU CUMH PARKI	1234567890	NORMAL	Mon Jul 10 2017	0.4	7.1	8180.0
TBB YENI MEZARLIK	1234567890	PENALTY	Mon Jul 10 2017	55.8	1.9	520.0

Click time interval selections to scan reactive consumption within intervals.

Return Home Page Meter Report

Today Last 7 Days Last 31 Days **Time Interval** Save to File

Site Info	Serial NO	Status	Start Date	End Date	% Ind.	% Cap.	kwh
T.B.B İMAR 2 VE ORTAK	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.4	1.8	2710.0
TBB SAHIL OZG P GIRIS	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.1	0.1	10790.0
T.B.B BILGI ISLEM	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.1	0.7	20690.0
DATAKOM/DFC0124	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.2	0.0	11570.0
T.B.B ULASIM DAIRE	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.1	4.0	17490.0
T.B.B ANA BINA 3	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.4	0.0	15400.0
T.B.B İMAR 1	1234567890	WARNING	Mon Jul 10 2017	Tue Jul 11 2017	N/A	N/A	N/A
TBB DEMIRLI YENI COPL	1234567890	PENALTY	Mon Jul 10 2017	Tue Jul 11 2017	1.0	202.0	990.0
T.B.B ANA BINA 2	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.1	0.6	8300.0
T.B.B ANA BINA 1	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.4	0.3	8690.0
T.B.B ETUT PRJ VE FEN	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.4	1.6	11220.0
TBB YENI ASFALT PLENT	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	3.8	1.7	3460.0
TBB CORLU CLMH PARKI	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.4	7.1	8180.0
TBB YENI MEZARLIK	1234567890	PENALTY	Mon Jul 10 2017	Tue Jul 11 2017	55.8	1.9	520.0

Click Save To File to save the report in .csv format.

Rainbow Scada - 25

Return Home Page Meter Report

Today Last 7 Days Last 31 Days This Month **Save to File** Save to File

Site Info	Serial NO	Status	Start Date	End Date	% Ind.	% Cap.	kwh
BAFRA	1234567890	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
karadeniz erk60031136	60031136	NORMAL	Tue Jun 03 2014	wed Jun 04 2014	3.0	7.1	35610.0
SINOP/KEFEVI MAH.	1234567890	NORMAL	Tue Jun 03 2014	wed Jun 04 2014	3.9	2.6	6890.0
SINOP NATO YOLU BBLOK	1234567890	NORMAL	Tue Jun 03 2014	wed Jun 04 2014	1.9	7.7	2070.0
SINOP NATO YOLU ABLOK	N/A	NORMAL	Tue Jun 03 2014	wed Jun 04 2014	4.4	7.4	2700.0
TOKAT MERKEZ B BLOK	N/A	PENALTY	Tue Jun 03 2014	wed Jun 04 2014	21.5	19.5	7070.0
carsamba yurt	N/A	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
ZILE BAKELIENLER MAH	N/A	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
TOKAT YURT A/B/C/D	1234567890	RECALLTY	Tue Jun 03 2014	wed Jun 04 2014	27.9	8.6	40460.0
TOKAT MERKEZ A BLOK	N/A	WARNING	Tue Jun 03 2014	wed Jun 04 2014	12.2	7.1	5240.0
AMASYA YURT MUD.	70102234	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
600 EVLER KIZ YURDU	1234567890	WARNING	Tue Jun 03 2014	wed Jun 04 2014	11.0	1.7	6300.0
OSMANIYE/E BLOK	N/A	NORMAL	Tue Jun 03 2014	wed Jun 04 2014	2.4	0.5	6340.0
AMASYA YESILIRMAK/A	50049278	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
YESILIRMAK B BLOK	1234567890	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
MERZIFON KIZ A BLOK	1234567890	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
IBNI KEHAL	1234567890	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
TURHAL	1234567890	WARNING	Tue Jun 03 2014	wed Jun 04 2014	6.3	8.9	2690.0
carsamba sungur1u mh	N/A	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	N/A
DKH-409 (C)	N/A	WARNING	Tue Jun 03 2014	wed Jun 04 2014	N/A	N/A	0.0

Download

ozenelektrik_2014_06...csv

Click Return Home Page for the main screen.

Return Home Page Meter Report

Today Last 7 Days Last 31 Days This Month **Return Home Page** Save to File

Site Info	Serial NO	Status	Start Date	End Date	% Ind.	% Cap.	kwh
T.B.B İMAR 2 VE ORTAK	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.4	1.8	2710.0
TBB SAHIL OZG P GIRIS	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.1	0.1	10790.0
T.B.B BILGI ISLEM	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.1	0.7	20690.0
DATAKOM/DFC0124	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.2	0.0	11570.0
T.B.B ULASIM DAIRE	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.1	4.0	17490.0
T.B.B ANA BINA 3	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.4	0.0	15400.0
T.B.B İMAR 1	1234567890	WARNING	Mon Jul 10 2017	Tue Jul 11 2017	N/A	N/A	N/A
TBB DEMIRLI YENI COPL	1234567890	PENALTY	Mon Jul 10 2017	Tue Jul 11 2017	1.0	202.0	990.0
T.B.B ANA BINA 2	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.1	0.6	8300.0
T.B.B ANA BINA 1	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	1.4	0.3	8690.0
T.B.B ETUT PRJ VE FEN	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.4	1.6	11220.0
TBB YENI ASFALT PLENT	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	3.8	1.7	3460.0
TBB CORLU CLMH PARKI	1234567890	NORMAL	Mon Jul 10 2017	Tue Jul 11 2017	0.4	7.1	8180.0
TBB YENI MEZARLIK	1234567890	PENALTY	Mon Jul 10 2017	Tue Jul 11 2017	55.8	1.9	520.0

4.2.2. Power Display

Power Display screen reports voltage, current and power measurements in detail related with each node. Therefore, if more than one device is connected to a node, total power consumption can be monitored easily.

Name	Power - P Total (kW)	Power - Q Total (kVar)	Power - S Total (kVA)
Expand All	250.8	-3.5	259.9
Expand Nodes	250.8	-3.5	259.9

Nodes can be expanded or collapsed by clicking **View Menu** by **Expand All**, and **Collapse All** options.

Name	Power - P Total (kW)	Power - Q Total (kVar)	Power - S Total (kVA)
RootNode	255.8	-4.6	264.5
TeKirdag Belediyesi	255.8	-4.6	264.5
T. B. B İMAR 2 VE ORTAK	3.6	0.0	3.9
TBB SAHİL OZG P GIRIS	8.4	0.0	9.3
T. B. B BILGI İSLEM	40.0	0.1	40.3
DATAKOM/DFCO124	20.5	0.1	20.6
T. B. B ULASTM DAİRE	51.6	-1.3	51.9
T. B. B ANA BİNA 3	40.1	0.0	40.8
T. B. B İMAR 1	3.5	-0.0	3.7
TBB DEMIRLI YENI COPL	0.3	-3.9	4.0
T. B. B ANA BİNA 2	18.4	0.3	19.1
T. B. B ANA BİNA 1	22.1	0.0	22.7
T. B. B ETUT PRJ VE FEN	33.3	0.0	33.6
TBB YENI ASFALT PLENT	13.0	0.0	13.0
TBB CORLU CUMH PARKI	0.3	0.0	1.1
TBB YENI MEZARLIK	0.4	0.3	0.6

Power display screen is also configurable. Click **Tool** and then click **Configure View**. Values displayed on the **Power Display Screen** can be configured one by one.

Configure View	Power - P Total (kW)	Power - Q Total (kVAr)	Power - S Total (kVA)
RootNode	237.7	-4.1	247.0
Tekirdag Belediyesi	237.7	-4.1	247.0
T.B.B IMAR 2 VE	3.4	0.0	3.7
TBB SAHIL OZG P	8.3	0.0	9.2
T.B.B BILGI ISLEM	39.4	0.0	39.7
DATAKOM/DFCO124	20.5	0.1	20.6
T.B.B ULASIM DAIRE	46.1	-1.5	46.5
T.B.B ANA BINA 3	43.1	0.0	43.7
T.B.B IMAR 1	3.5	-0.0	3.7
TBB DEMIRLI YENI COPL	0.2	-4.0	4.1
T.B.B ANA BINA 2	19.0	0.6	19.7
T.B.B ANA BINA 1	17.2	0.4	17.9
T.B.B ETUT PRJ VE FEN	30.7	0.0	30.9
TBB YENI ASFALT PLENT	4.9	0.0	5.2
TBB CORLU CUMH PARKI	0.3	0.0	1.1
TBB YENI MEZARLIK	1.0	0.3	1.1

View Configuration screen will be seen below. You can configure column values on this screen.

View Configuration

Column Value - 1: Power - P Total (kW)

Column Value - 2: Power - Q Total (kVAr)

Column Value - 3: Power - S Total (kVA)

Column Value - 4: -

Column Value - 5: -

Column Value - 6: Genset - V1 (V)

Column Value - 7: Genset - V2 (V)

Column Value - 8: Genset - V3 (V)

Column Value - 8: Genset - U1 (V)

Column Value - 9: Genset - U2 (V)

Genset - U3 (V)

Genset - I1 (A)

Genset - I2 (A)

Genset - I3 (A)

Power - P Total (kW)

Power - Q Total (kVAr)

Power - S Total (kVA)

Power - P1 (kW)

Power - P2 (kW)

Power - P3 (kW)

Power - Q1 (kVAr)

Power - Q2 (kVAr)

Power - Q3 (kVAr)

Power - S1 (kVA)

Power - S2 (kVA)

Click **Save** button to save the configuration.

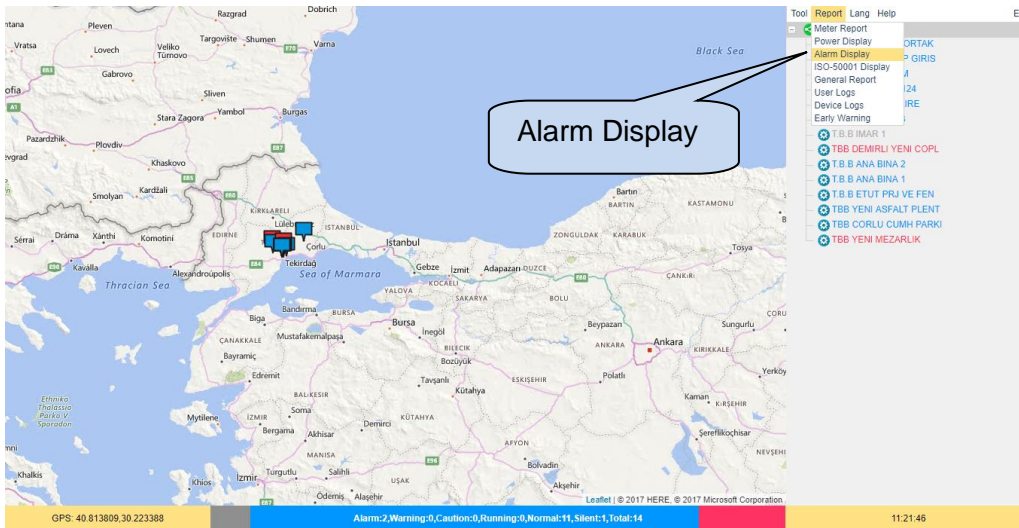
Click **Go Back** for the main screen.

Name	Power - P Total (kW)	Power - Q Total (kVAr)	Power - S Total (kVA)
RootNode	247.9	-0.7	257.0
Tekirdag Belediyesi	247.9	-0.7	257.0
T.B.B IMAR 2 VE ORTAK	6.5	0.0	6.7
TBB SAHIL OZG P GIRIS	10.1	0.0	10.9
T.B.B BILGI ISLEM	40.7	0.1	41.0
DATAKOM/DFCO124	20.5	0.1	20.6
T.B.B ULASIM DAIRE	45.3	-0.3	45.6
T.B.B ANA BINA 3	43.7	0.0	44.2
T.B.B IMAR 1	3.5	-0.0	3.7
TBB DEMIRLI YENI COPL	0.3	-4.1	4.1
T.B.B ANA BINA 2	23.6	1.8	24.2
T.B.B ANA BINA 1	21.9	1.5	22.4
T.B.B ETUT PRJ VE FEN	25.7	0.0	26.0
TBB YENI ASFALT PLENT	4.6	0.0	5.3
TBB CORLU CUMH PARKI	0.3	0.0	1.1
TBB YENI MEZARLIK	1.2	0.3	1.3

4.2.3. Alarm Display

Alarm display screen reports all existing alarms and warnings on one screen.

Click **Report** and click **Alarm Display**.



Alarm display screen will be displayed ;

Time	Site-ID	Unique-ID	Version	Error
2014-06-09T05:55:58Z	TASKOPRU TEPE	1FF0FF0B6498D4AFC2F6750	DK05D500	Shutdown: Low Battery voltage; warning: Low Battery voltage
2014-06-09T05:47:40Z	DATCAMESUDİYEKND0 SYOL	01B00009291CD4F2F2C61	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	TURKCELL_CALTEPE	0F0DFF0F02A1D0AF78B6C50	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	BİTLİS/DİDEBAN/TR T	1A4001066498D4F72FF6650	DK05D500	warning: kabin kapsi acik
2014-06-09T05:44:03Z	KARAHALKKA-KOYU	01A000056498D4AF76F86650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	KARGİPİNAR-YENİ	145001056498D4AF4F96650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	EREGLİ/OREN	1640FF0B291CD4F543D61	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	HATAY SAMANDAG YOLU	1D10010A291CD4F173361	DK05D500	warning: Fail To Stop
2014-06-09T05:44:03Z	KARAKOC	093000056498D4AF72FA6650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	ORMANLI/HALASLI	0FF00003291CD4FA80661	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	KAYMAKLI/GOZTEPE	003000026498D4AF74E76650	DK05D500	warning: Service 1 Request

Alarm list can be sorted by Time, Alarm level & Time.

The screenshot shows the same alarm list table as above, but with a 'Sort By' dropdown menu open. Two callout boxes point to the 'Sort By Time' and 'Sort by Alarm & Time' options in the dropdown.

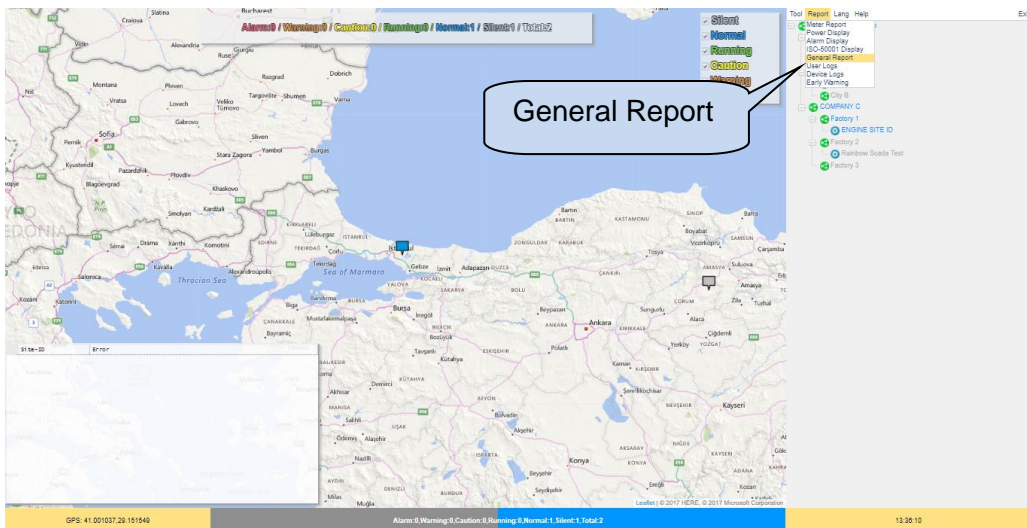
Time	Site-ID	Unique-ID	Version	Error
2014-06-09T05:55:58Z	TASKOPRU TEPE	1FF0FF0B6498D4AFC2F6750	DK05D500	Shutdown: Low Battery voltage; warning: Low Battery voltage
2014-06-09T05:47:40Z	DATCAMESUDİYEKND0 SYOL	01B00009291CD4F2F2C61	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	TURKCELL_CALTEPE	0F0DFF0F02A1D0AF78B6C50	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	BİTLİS/DİDEBAN/TR T	1A4001066498D4F72FF6650	DK05D500	warning: kabin kapsi acik
2014-06-09T05:44:03Z	KARAHALKKA-KOYU	01A000056498D4AF76F86650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	KARGİPİNAR-YENİ	145001056498D4AF4F96650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	EREGLİ/OREN	1640FF0B291CD4F543D61	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	HATAY SAMANDAG YOLU	1D10010A291CD4F173361	DK05D500	warning: Fail To Stop
2014-06-09T05:44:03Z	KARAKOC	093000056498D4AF72FA6650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	ORMANLI/HALASLI	0FF00003291CD4FA80661	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	KAYMAKLI/GOZTEPE	003000026498D4AF74E76650	DK05D500	warning: Service 1 Request

Shutdown alarms will be red, warnings will be yellow. Click **Go Back** to the main screen.

Time	Site-ID	Unique-ID	Version	Error
2014-06-09T05:55:58Z	TASKOPRU TEPE	1FF0FF06498D4AFEC2F6750	DK05D500	Shutdown: Low Battery voltage; warning: Low Battery voltage
2014-06-09T05:47:40Z	...	01800009291CD4AF2F2C6150	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	...	02A1D00AF78B61C0	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	...	6498D4AF72FF660	DK05D500	warning: Kabin kapsi acik
2014-06-09T05:44:03Z	...	6498D4AF76F8660	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	KARGIPINAR-YENI	115001056498D4AF4A9F9650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	...	01CD4AF543D61	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	HA...	0CD4AF173361	DK05D500	warning: Fail To Stop
2014-06-09T05:44:03Z	KA...	98D4AF72FA66	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	ORM...	OFF00003291CD4AF8066150	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	KAYMAKLI/GOZTEPE	003000026498D4AF74E76650	DK05D500	warning: Service 1 Request
2014-06-09T05:44:03Z	BINGOL/YEDISU	0E0315158D014D531E74F04D	DK04D500	warning: Fail To Stop
2014-06-09T05:44:03Z	CAMLARCA KOYU	0960FF056498D4AF4AFC66CA	DK05D500	warning: Fail To Stop, Reverse Power

4.2.4. General Report

General Report tab under the **Report** menu will create a list of measured parameters between specified dates.



A new window will appear asking users to configure the time interval as well as measurements to be listed.

Help | 27.08.2017 00:00:00 | 29.08.2017 00:00:00 | Battery Volt | Query | Save

Engine Temp
Fuel Percent (%)
Fuel Amount (kgal)
Fuel Consumption (kgal)
Total kWh
Rainbow Scada Demo

- COMPANY A
 - Branch 1
 - Branch 2
- COMPANY B
 - City A
 - City B
- COMPANY C
 - Factory 1
 - Factory 2
 - Factory 3

Time interval

Measurements to be listed

Help | 27.08.2017 00:00:00 | 29.08.2017 00:00:00 | Engine Temp | Query | Save

Engine Temp
List
Difference
Minimum
Maximum
Average
Fuel Consumption

Query type

Query

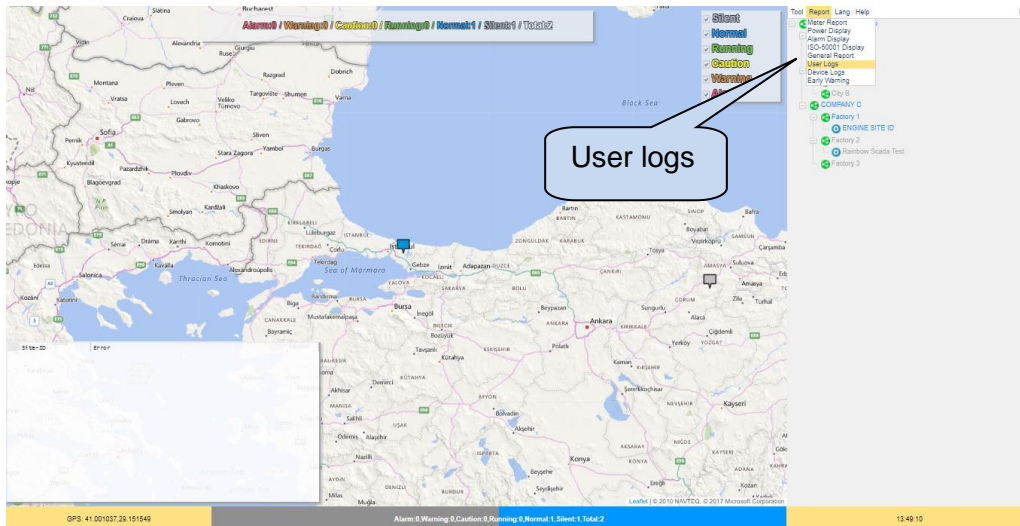
Baş: 24.08.2017 00:00:00 | Son: 26.08.2017 00:00:00 | Sorgula | Kaydet

Name	Aku Voltajı - Ortalama	Toplam kWh - Maksimum	Motor Çalışma Saati - Fark	Motor Sıcaklığı - Ortalama
kök dizin		74.80	37.97	
rainbow Scada Demo		74.80	37.97	
COMPANY A				
Branch 1				
Branch 2				
COMPANY B				
City A				
City B				
COMPANY C		74.80	37.97	
Factory 1		0.00	0.00	
Factory 2		74.80	37.97	
Factory 3				
Rainbow Scada Test (123456789)	13.50	74.80	37.97	N/A
Factory 3				

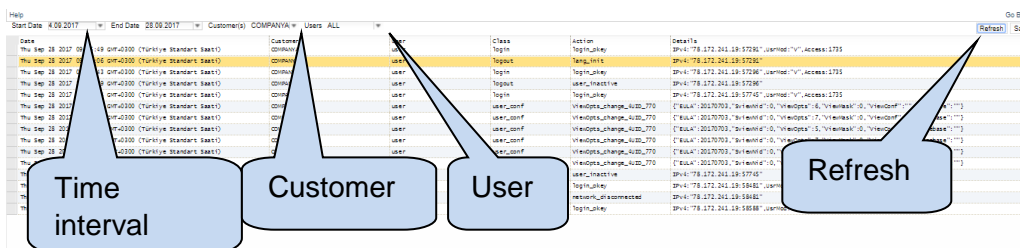
Listed parameters

4.2.5 User Logs

User Logs tab under the Report menu will create a list of user logs with date and time stamps.

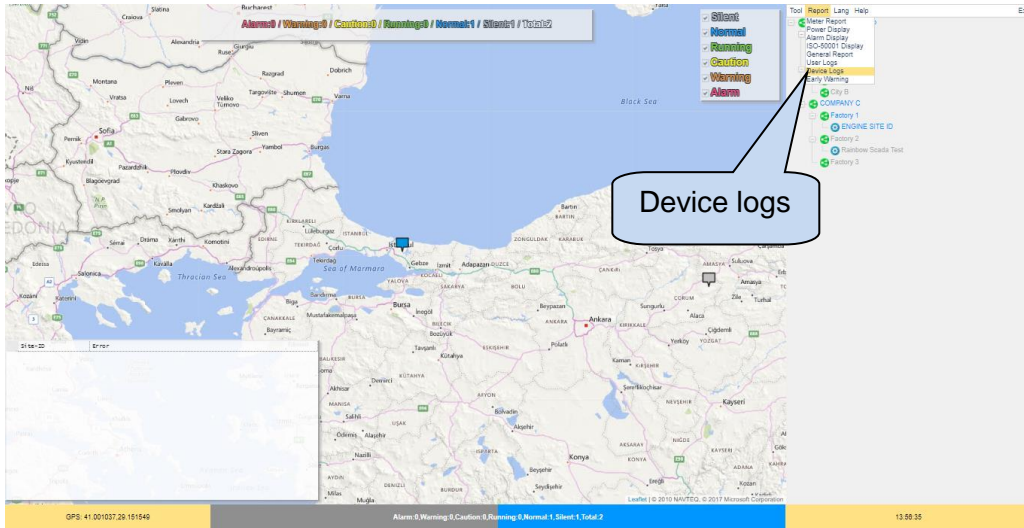


In order to list user logs, time interval, customer and user must be specified.



4.2.6 Device Logs

Rainbow Scada logs status changes of each device connected to remote monitoring system. **Device Logs** tab under **Report** menu will create a list of status changes of remotely monitored devices.



In order to list device logs, time interval, customer and devices must be specified.

The screenshot shows a table of device logs. The table has columns for 'Tarih' (Date), 'Saat' (Time), 'Durum' (Status), 'Müşteri' (Customer), and 'Cihazlar' (Devices). The 'Durum' column contains values like 'Normal', 'Warning', 'Caution', 'Running', 'Normal', 'Standby', and 'Total'. The 'Müşteri' column contains values like 'FLORA TEKNE'. The 'Cihazlar' column contains values like 'Hepsi'. A 'Refresh' button is visible in the top right corner. Callout boxes point to the 'Time interval', 'Customer', and 'Devices' columns.

Tarih	Saat	Durum	Müşteri	Cihazlar
Tue Nov 08 2016 07:45	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Tue Nov 08 2016 09:10	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Tue Nov 08 2016 16:20	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Thu Nov 10 2016 00:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Thu Nov 10 2016 04:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Thu Nov 10 2016 08:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Thu Nov 10 2016 12:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Thu Nov 10 2016 16:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Fri Nov 11 2016 00:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Fri Nov 11 2016 04:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Fri Nov 11 2016 08:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Fri Nov 11 2016 12:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Fri Nov 11 2016 16:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 00:00	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 00:14:27	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 00:14:35	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 02:11:07	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 03:14:18	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 03:14:26	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 03:14:36	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 03:20:36	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 03:44:46	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 04:08:10	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 05:11:13	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 06:11:06	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 06:14:10	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 06:46:12	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 16:16:10	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Sat Nov 12 2016 18:20:17	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Mon Nov 14 2016 07:19:14	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE
Mon Nov 14 2016 10:02:17	00:00	(Türkije Standart Saat)	647699	FLORA TEKNE

4.2.7 Early Warning

Early Warning tab under **Report** menu allows user to filter remotely monitored devices with respect to measured parameters such as battery life, fuel level, maintenance time. Screenshot below shows devices that have less than 50% fuel left.

Cihaz ID	Site ID	Yakıt Seviyesi	Dosyaya Kaydet
2587	ILGAZ CUM. 855	0.00	
7588	KIRSEHIR CUMH NTT855	27.40	
8014	SIVRILISAR KTA 19	48.20	
8617	ASTAMONU DEUTZ	58.40	

Similarly, it is also possible to create a list with respect to maintenance timer.

Cihaz ID	Site ID	Önceki Srv'd Tarihi	Srv'd'e kalan Saat	Srv'd'e kalan Gün	Sonraki Srv'd Tarihi	Dosyaya Kaydet
3170	KAISELI NITTA 855	Wed Apr 05 2017 10:18:52 GMT+0300 (Türkiye Standart Saati)	230.61	-22.20	Thu Aug 03 2017 10:18:52 GMT+0300 (Türkiye Standart Saati)	
7588	KIRSEHIR CUMH NTT855	Wed May 03 2017 04:18:52 GMT+0300 (Türkiye Standart Saati)	225.40	5.65	Thu Aug 31 2017 04:18:52 GMT+0300 (Türkiye Standart Saati)	

4.3. Language Selection

Rainbow Scada supports multiple languages including Turkish, English, Spanish, French and Chinese.

Click **Language** and change language of Rainbow Scada if necessary.



It is required to log-out and log-in again the remote monitoring account in order to reflect the language change. Click **yes** for automatic log out from the account.

