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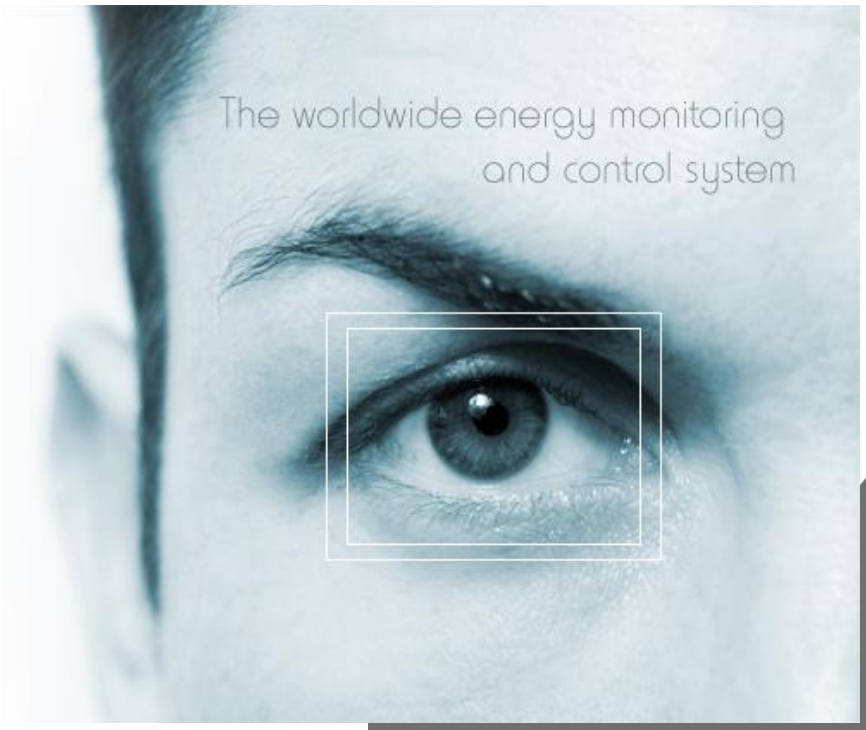

User's Manual

SI.MO.NE

Sices Monitor Network

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Product: Si.Mo.Ne

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The SI.MO.NE system is a service developed by SICES Srl in order to allow customers requiring continuous real-time gen-set monitoring, to check the gen-set operation, the analogue measurements detected by the control device, the active digital inputs/outputs and the geographic location detected via GPS (if applicable). However, all these data are recorded 24/24 in a database and are available to users for quick reference.

1. Preliminary remarks

SI.MO.NE system offers several benefits, such as: reduce site visits and maintenance costs. More and more often there's a need for unattended plants able to send information about operation status. The GPRS communication, covering domestic and international territories and not requiring any PSTN/ADSL telephone line, is the most suitable technology.
Recently, we realized the increase of these systems, using M2M (machine to machine SIM). This kind of communication is based on wireless data transfer via TCP/IP GPRS system. Available several contracts provided by telecom companies.

2. Requirements

1) A valid agreement with SICES Srl for using the SI.MO.NE service.
2) Login ID and password for accessing the system, issued by SICES Srl (ADMIN level and creation of a main COMPANY).
3) At least one operating REWIND device.
4) At least one active M2M SIM.
5) Internet connection system:

- A PC with Microsoft Xp® O.S. or higher, Web browser Internet explorer 8.0® or higher or Mozilla Firefox 6® or higher.

Operation on other platforms is not assured.

- A Smartphone and/or a Tablet with enabled Internet connection and Web browser. Apps (smartphone/tablet applications), for managing and reading .pdf and/or .csv files, are required in order to perform detailed analysis of reports and/or graphs.

3. Definitions

EVENTS: Alarm, shutdown, change of status of the genset or of the device

UNIT: Typically is the Genset or the Tower lighting

DEVICE: Rewind or Dance. The device by means data are sent to SI.MO.NE.

PARK: place where the unit is parked when not used

4. Base set-up (ADMIN only)

This chapter explains all the steps required by the ADMIN in order to configure the system for acquiring data and create SuperUser and/or User access level users.

Connect to the following Web page: http://simone.sices.eu/simone

Username and Password are required in order to access the system.

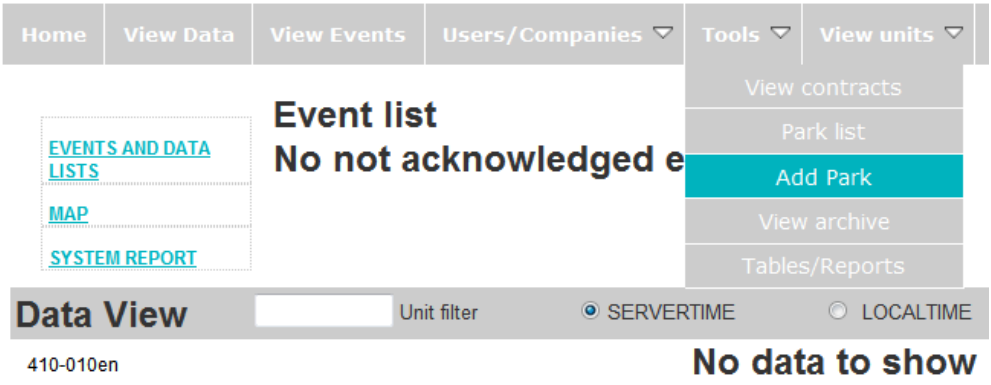
Operation sequences performed by the ADMIN:

1) Create one or multiple **Parks** in the software.
2) Create one or multiple **Unit(s)** in the software (Units = genset, tower lighting, vehicle, etc).
3) Pair one or multiple **REWIND/DANCE** devices to the **Unit(s)**.

⚠ ***Information! the maximum Unit management is a datum entered in the Company profile configured by SICES Srl. Pairing with REWIND devices may be performed subsequently.***

4.1 Creating a Park

In "**Tools**" menu, select the function "**Add Park**".



The screen for entering the "**Park**" data will display.

Enter name and/or description of the park related to the existing unit, where the rental Gen-Sets or Tower Lighting are placed when they are stopped or before commissioning in a fixed station.

Information: The main existing "Company" is a pre-entered field by SICES Srl.

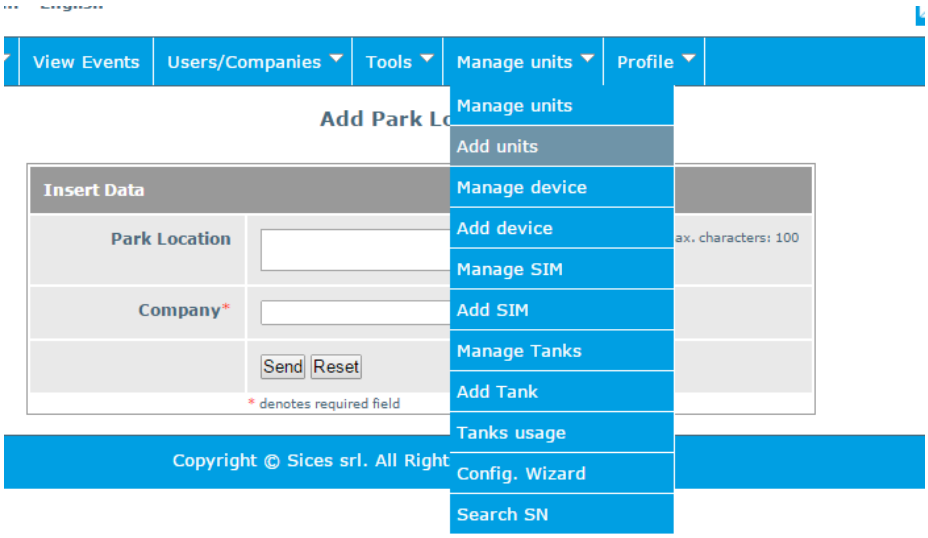
Select the company who owns the **Park** or the existing Company.

If data entered are correct, click the "**Send**" button and confirm with "**Click here to save**".

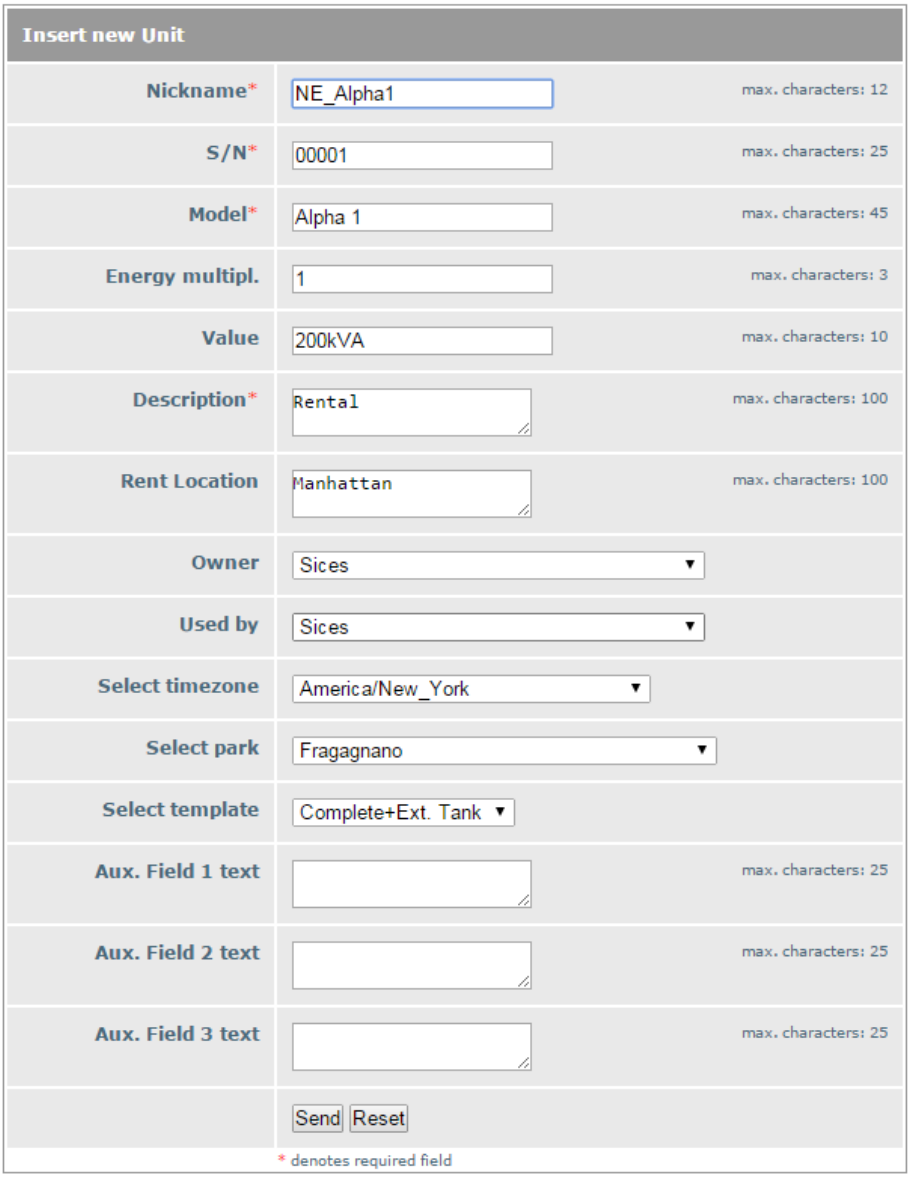
4.2 Creating one Unit (Gen-Sets)

If at least one registered **Park** (read the previous paragraph about park creation) is available, you may register one or multiple **Unit(s)** (Gen-Sets).

Log in as **ADMIN** and from the menu "**Manage Units**" select the function "**Add Units**".



The screen for entering the data "**Insert data for new Unit**" will display.



Fields marked with a star (*) are mandatory.

***Nickname**: enter a name to identify the Gen Set.

⚠ ***Information:*** the "**Nickname**" field is an univocal field for the entire software, thus subject to duplication rules. Due to privacy rules, the customer will only be allowed to see the **Units** belonging to his/her **Company** . As a general rule, to avoid using a **Nickname** already in use, enter a 2-digits prefix identifying your Company.

Example:

Company name entered in the software: Newgen_ltd

Recommended prefix to use for all Units to be entered: NE_

Add to the prefix an Id such as: NE_Unit1, NE_Unit2, NE_ecc.

S/N: enter the serial number of the Gen-Set.

Model: enter the model of the Gen-Set.

Energy Multipl.: not managed at present, keep 1 (default).

Value: optional, it's a free field for notes.

Description: description, gen-set type, etc...

Rent location: optional, installation/rent location.

Owner: who is the genset's owner.

Used by: who uses the genset

Select timezone: select time zone for the Gen-Set installation/rent location.

Select park: Select the Gen-Set Park.

Select Template: "Complete+Ext.Tank" is recommended in order to gather all the info if connected to one or multiple engine control board(s) (RS485 only) **SICES Srl** or to REWIND compatible devices. Data recorded in the system consist of analogue measures, operation status, warnings, alarms etc.

Misure Limitate (limited measures): presently not managed.

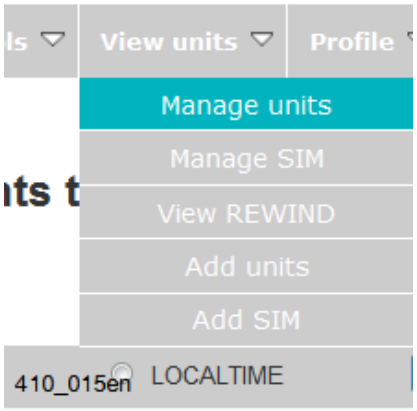
Solo Digitali (digital only): select it in case the controller is NOT supported by REWIND. In this case, data recorded by the system are only digital status acquired by the eight REWIND digital inputs.

If data entered are correct, click the "**Send**" button and confirm the prompt "**Click here to save**".

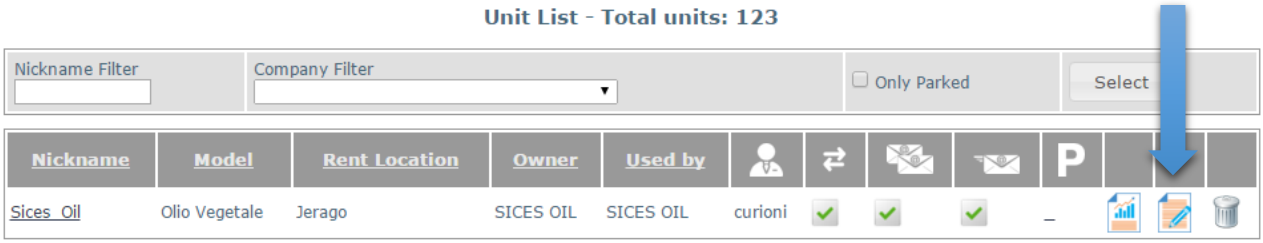
4.3 Pairing a REWIND/DANCE to a Unit

After creating units to be managed, you may now pair them with the REWIND devices (pre-configured by SICES Srl in case they manage Service and SIM), thus creating a pairing by the Unit (gen-set) and the **REWIND** control device.

After logging in, the main management page will display. From the menu "**Manage Units**", select the function "**Manage Units**".

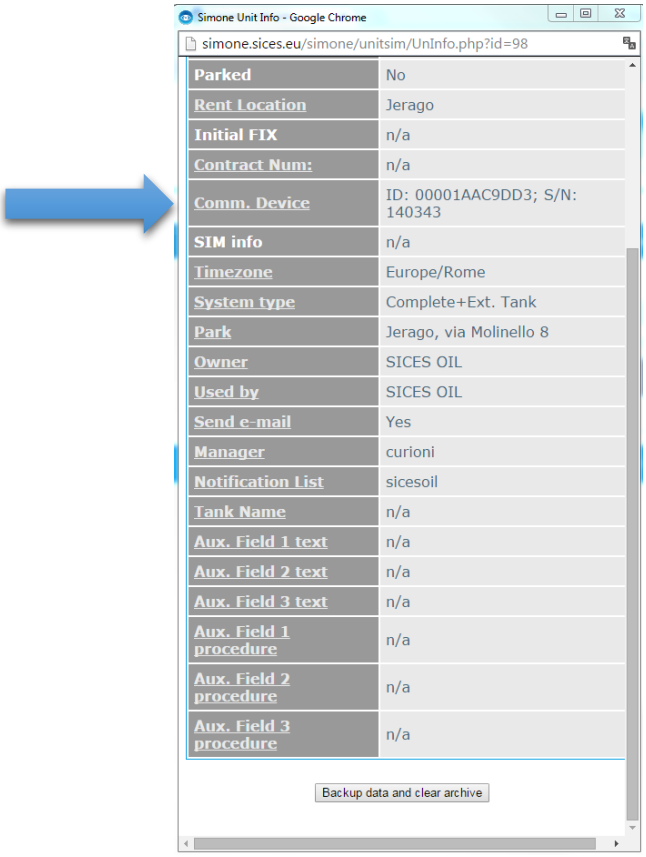


Select the Unit to be paired with the REWIND device by clicking "**Info/Edit**".



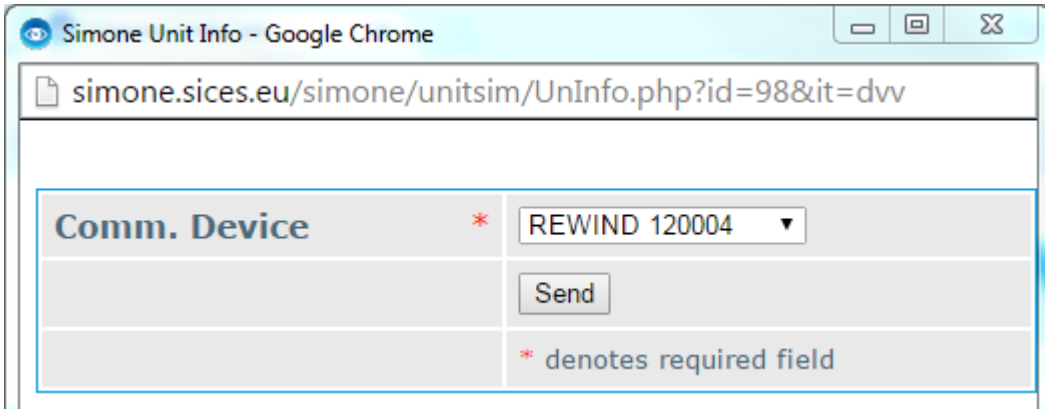
The management window containing the unit's parameters will display.

Click to select "**Comm. Device**"



⚠ ***Information:*** only **Users** with **ADMIN** level are allowed to pair the **REWIND/DANCE** to the Unit.

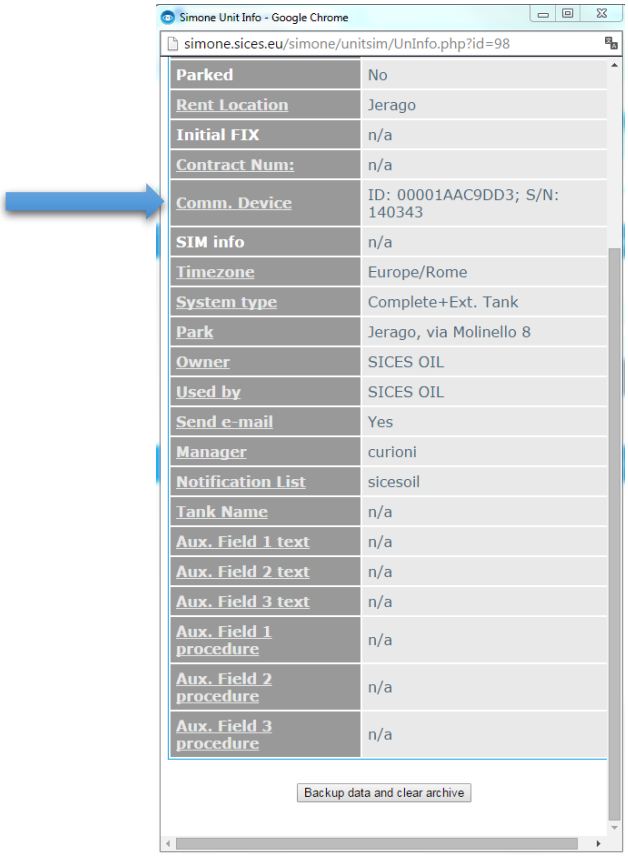
Click on "**Comm. Device**" and select the proper REWIND/DANCE (if available) and click "**Send**".



* Serial Number

Click "**Click here to resume**".

Before closing the **Unit** configuration screen, check if the **REWIND/DANCE** ID is shown next to the "**Comm.Device**".



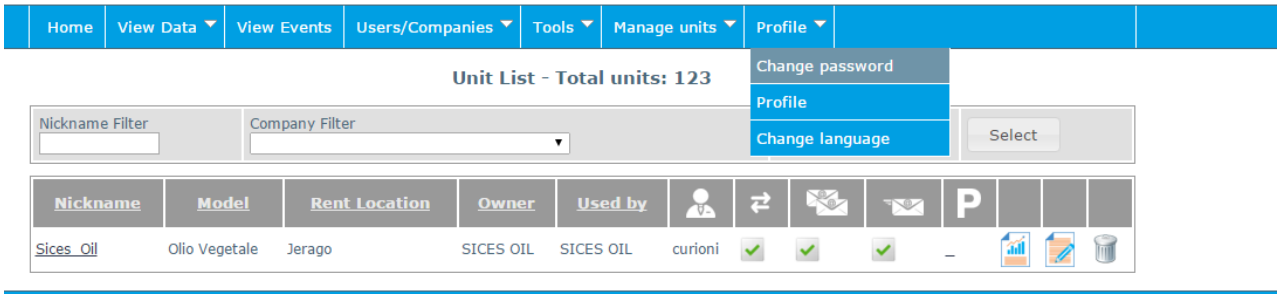
Now the page containing the configured unit data.

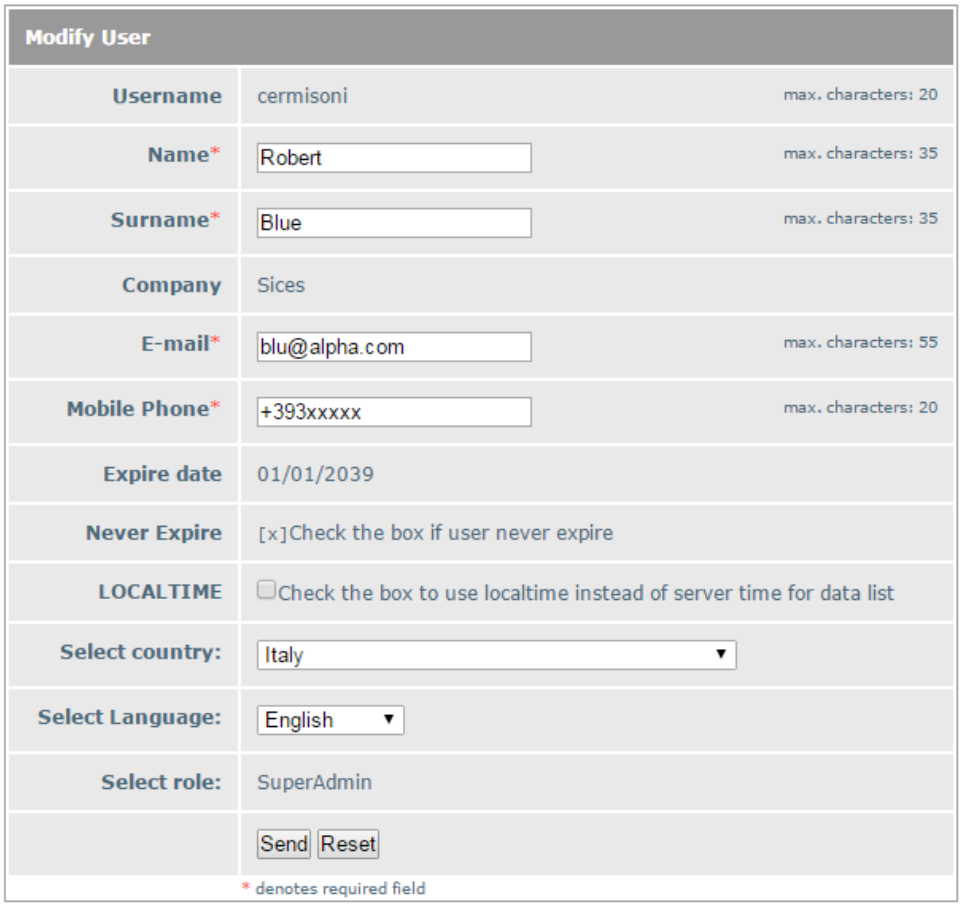
4.4 User registration

In order to access to SI.MO.NE, you require a valid "Username" and "Password". Based on the access rights, the operator is entitled to use some or all functions and/or configurations. The registration of a new User profile (Admin, SuperUser or User) can be made only by an already registered operator, with an access level higher than the one you wish to register.

⚠ For your Info, the "SuperUser" level has the same rights as "User".

⚠ For your Info, in case you lose a password, you will be required to enter "Username" and "Surname". The new password will be mailed to the e-mail address entered in the predefined field during the registration. (See par.5.1.2)





⚠ Information: fields marked with a star * are mandatory.

Username: Allowed fields are: numbers, letters and the underscore (_) symbol.

Name, **Surname**: enter personal data into the new account.

Company: in case of multiple choices, select the corresponding Company. (Creating a new Company is only possible with **Superadmin** rights.)

E-mail: enter an easy to read e-mail address, as it will be used by the system for mailing the new password in case of lost password.

Expiry date/Does not expire: the Admin can enter an expiry date for either temporary or permanent access to the system.

Localtime: if Local time is set, it will set as a default the time of the location where the REWIND was installed when the information was sent. If Local time is not set, the time will be the same sent by the Service.

Select country, **Select language:** enter requested data.

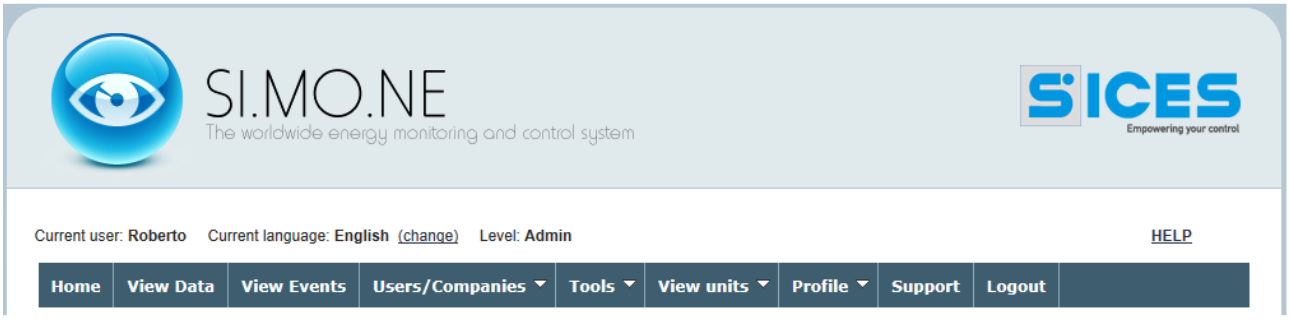
Select role: fixed field “SuperUser” or “User”.

Password, **Repeat password:** enter the password twice.

Check data and confirm them if correct. Then click the "Send" button. If no errors are detected, the system will advise "Operation successfully completed".

5. View

This chapter shows all the management menu screenshots and the relevant descriptions. Next to the chapter and/or paragraph title are shown the minimum access levels "**Admin**" and "**User**" required to access submenus and functions.



The upper part, available in any menu, shows the Login name, the Language (Italian/English presently available) and the User level (Superadmin, Admin, User).

5.1 Home (Admin/User)

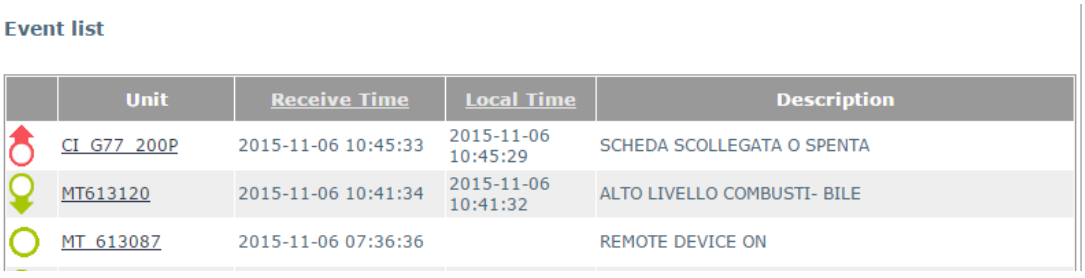
Home page with the detailed list of all **Units**.

Four submenus are available:

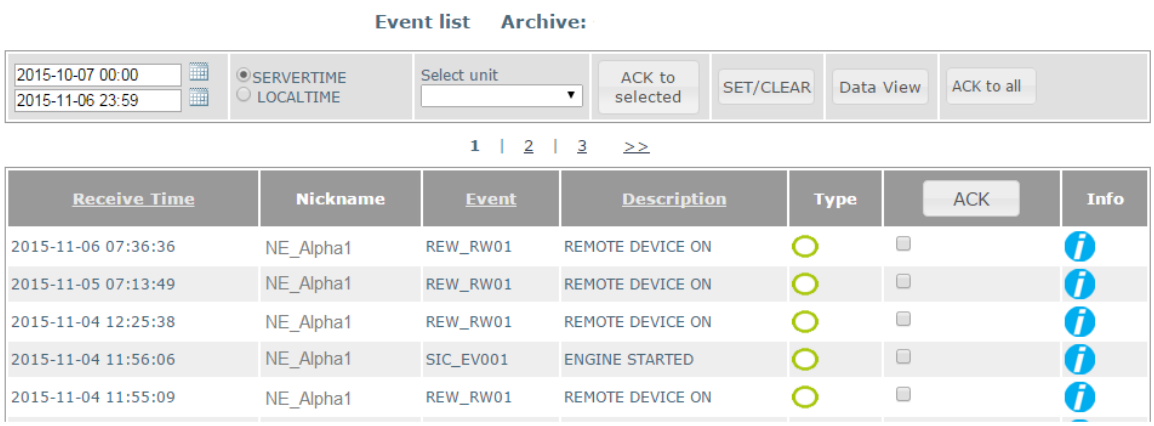
5.1.1 Events and data lists

5.1.1.1 Events list

The submenu "**Events list**" displays the last events for each configured **Units**.



Clicking on the Unit name will display a new screenshot with all events registered and/or pending archive registration.



The registration is subject to event acknowledgement and can be done by selecting the relevant box in the "**ACK**" column.

In the upper bar, there are some filters helping you to quickly visualize some data.

The function buttons "**SET/CLEAR**", "**Data View**" and the box "□ **Set all ACK**" are used to apply some filters (**SET**) or not to apply them (**CLEAR)** and to display the window "**Data View**". The function "□ **Set all ACK**" and the button "**SET/CLEAR**" allow to select/deselect all the events not yet acknowledged.

Date: Select Start day/Select end day. Selecting the corresponding headers will open an help calendar window for defining the date. However, you may manually enter the date in the textbox, using the YYYY-MM-DD (year-month-day) format.

Select Unit: you may filter the view by **Unit**, in the current "**Data View**" window selecting or entering manually in the "**Select Unit**" textbox.

The bar right below displays all **Units** events sorted by Receipt hour, Nickname, Event, Description, Type, ACK and Info

In detail:

Receipt time: Servertime/Localtime receive hour *(see par. 6.1 Servertime/Localtime for more information).*

Nickname: name of the configured unit.

Event: numeric code identifying the **Event**.

Description: description of the event.

Type: three graphic views available for type of event:

- Event indicating a general status.
- (Red upward arrow) Warning/Alarm occured.
- (Green downward arrow) back to normal Warning/Alarm status.

ACK: acknowledging the event allows storing it in the events history logs.

If the event box is checked “ ☑ ” and you confirm pressing the button “ ACK ”, the event will be acknowledged and saved in the database.

Info: the buttons “ ” in the “Info” displays a textbox containing all the reports acquired since the event occurred.

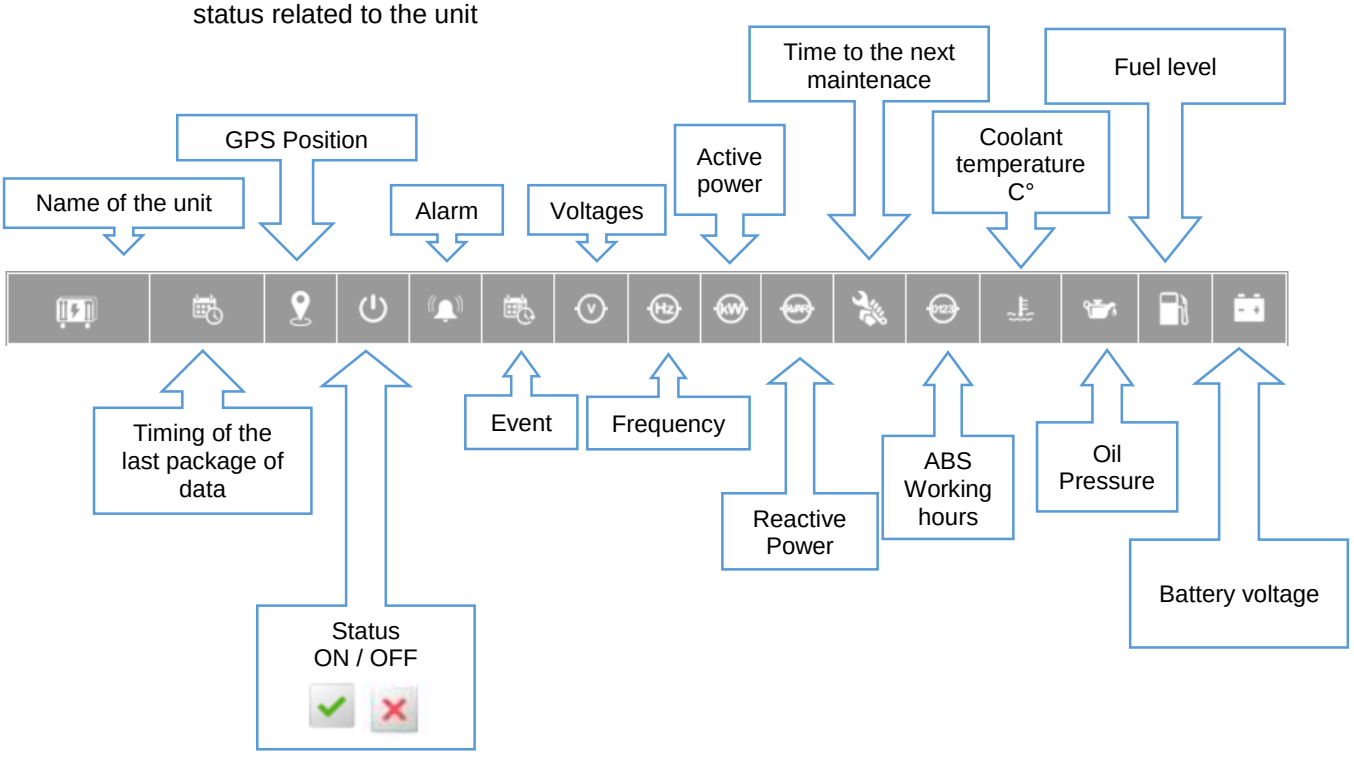
Data View - Archive: Sices Table: SC_ACQ13

Summer Time	0
Local Time	2015-11-06 12:26:32
UTC	2015-11-06 11:26:32
Receive Time	2015-11-06 12:26:35
GPS	+45.42534,+8.48389
GPS geoloc.	45.7089, 8.80648
Valid GPS	1
Abs. Work Time	8201
Time to Maint.	0
Maint Request	n/a
Batt. Volt.	26.7
RUN	1
Warn	0
Shtdn	0
Emerg. STOP	0
Mains Good	1
Voltage	414 - 415 - 416 V
Current	313.32 - 307.59 - 303.19 A
Freq.	50.0 Hz
kW	221.10 kW
kvar	9.28 kvar
P.F.	1.00lag
Active energy	45496kWh
Coolant temp.	74.6 °C
Oil Pressure	3.6 bar
Fuel Lev.	73.4 %
Alarm Code	0
Ext. Fuel Res.	n/a
Ext. Fuel	n/a

5.1.1.2 Data View

The screenshot "**Data view**" displays the last data gathered by the data Server for all the configured and working **Units**, reporting operating status, main analogue measures, alarms (if any) and GPS coordinates.

Below the icons. Below each icons the list of the units is listed displaying the main info and status related to the unit



The example shows the TABLE refereed to the UNIT "**SC_ACQ13**":

Data View **Archive: Sices** **Table: SC_ACQ13**

2015-10-07 00:00 / 2015-11-06 23:59 | Group time(hh:mm) | SERVERTIME / LOCALTIME | Only Events / CSV | APPLY | EVENTS

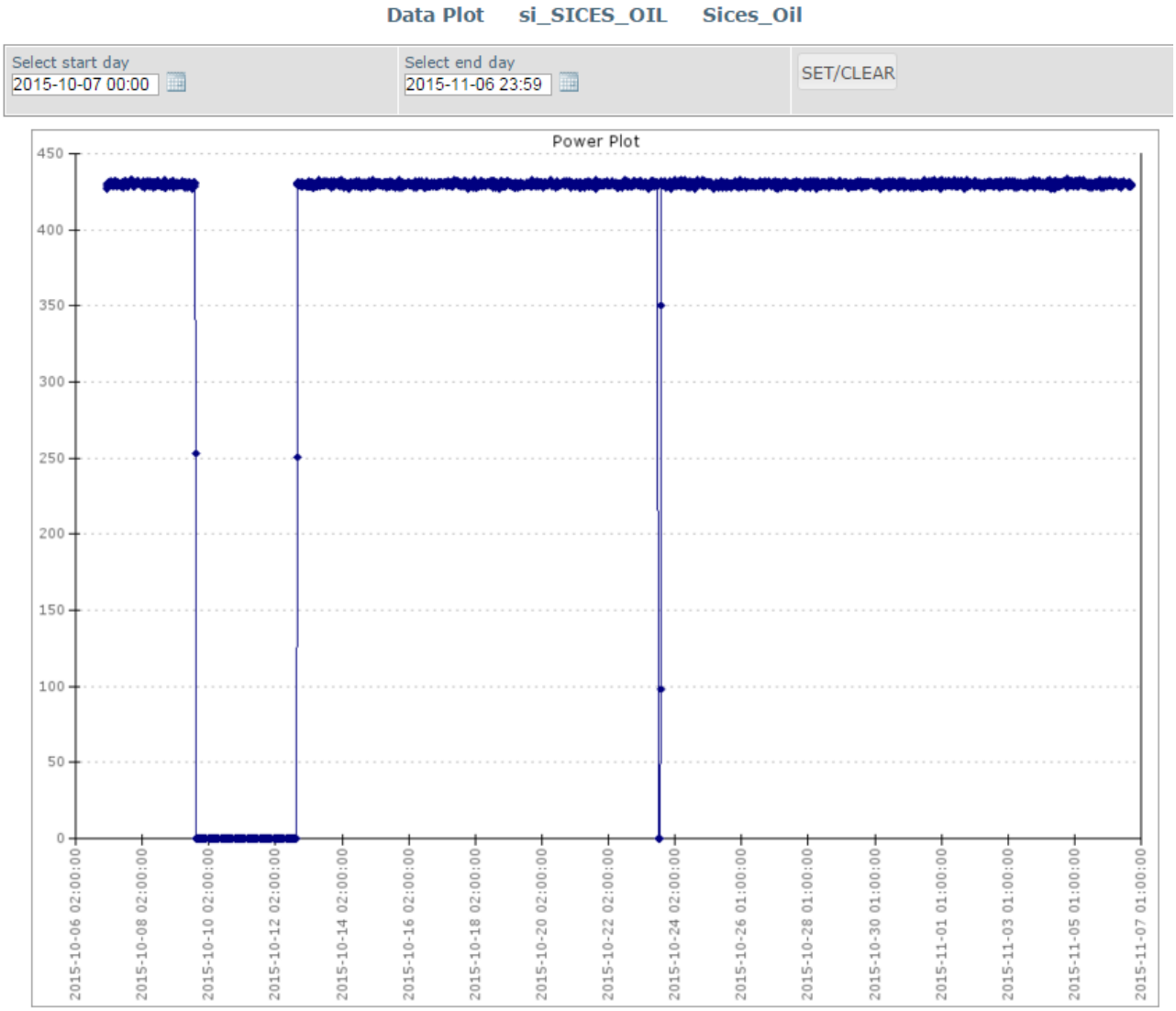
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 >> [82]

												Info				Ext. Fuel	Ext. Fuel Res.	
2015-11-06 12:28:43			-	-	-	415V 416V 416V	312.57A 309.42A 303.56A	50.0	221.76	9.25		74.6°C	3.6bar	73.4%	n/a	-	26.6
2015-11-06 12:28:33			-	-		414V 416V 416V	284.60A 280.60A 275.02A	50.0	211.22	5.32		74.6°C	3.6bar	73.4%	n/a	-	26.7
2015-11-06 12:28:26			-	-		n/a	0.00A 0.00A 0.00A	0.0	0.00	0.00		74.6°C	3.6bar	73.4%	n/a	-	26.7
2015-11-06 12:28:16			-	-		n/a	0.00A 0.00A 0.00A	0.0	0.00	0.00		74.6°C	3.6bar	73.4%	n/a	-	26.8
2015-11-06 12:28:07			-	-		n/a	0.00A 0.00A 0.00A	0.0	0.00	0.00		74.6°C	3.6bar	73.4%	n/a	-	26.8
2015-11-06 12:26:48			-	-		414V 415V 416V	313.69A 307.33A 303.19A	50.0	221.18	9.25		74.6°C	3.6bar	73.4%	n/a	-	26.6

The upper part of the window shows the buttons used for filtering the Unit's data view.

Below, the main measures and status are displayed. If there is a GPS antenna, click on the map in order visualize the unit position.

Click on the icon above, it's possible to have a Power plot of the selected unit

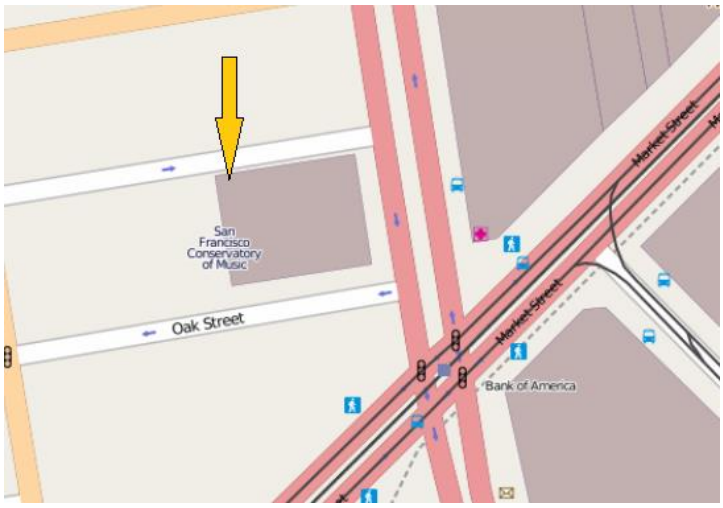


5.1.2 Map

If the GPS of the **REWIND** device is enabled and operating, it will send the data packet (events and measures) plus some data related to the geographical location of the device.

To view the map, simply click the icon in the "**GPS**" column or on the "**MAP**" text window.

Via the "**Open street**" system, the displayed window will show the **Unit's** location.

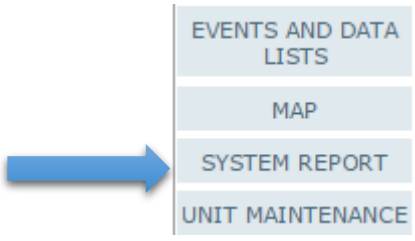


You may use any on-line localization system using the GPS coordinates or the GPS geo-localization. These data may be viewed displaying the data registered, the events or data, in the **Unit's** management. See par. **4.1.1 Events and data list**.

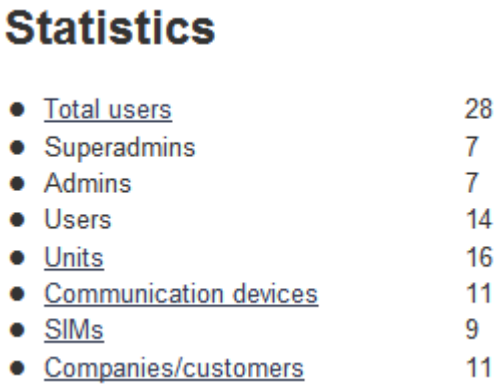
GPS	+37.7752485°, -122.4202194°
GPS geoloc.	+37.7754097742785,-122.42031097412
Valid GPS	1

Also click on this icon it's possible to have the GEO position of the Unit or the Tracking in case of movement

5.1.3 System report

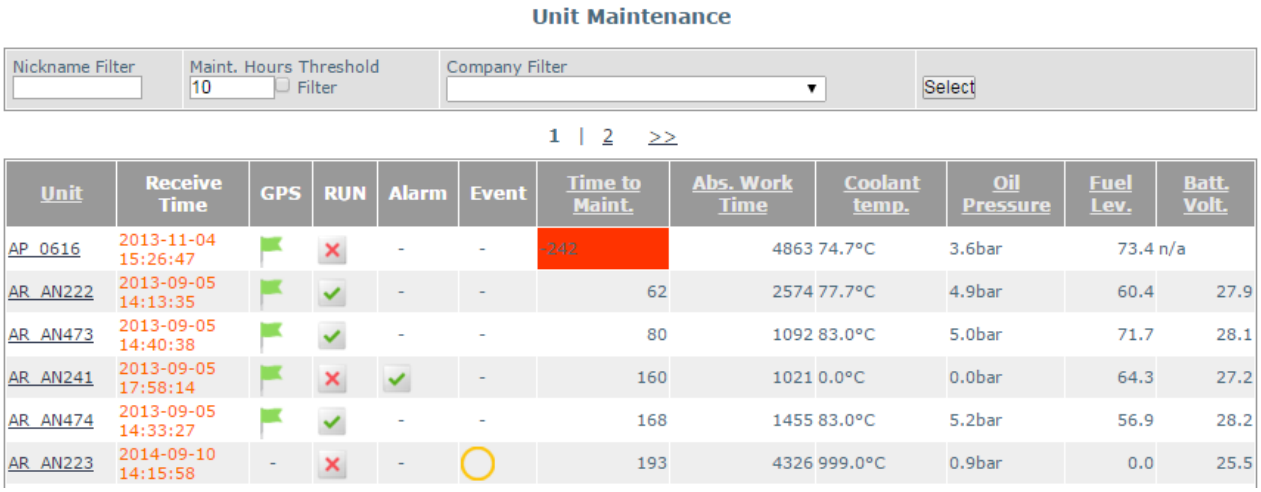


It's available a summary view using a hypertext link. Click on the interested item to open the detail of the Info.



5.1.4 Unit maintenance

Here it's possible to have an overview of the main engine values and if and the time to the next maintenance activity (of set).



Unit	Receive Time	GPS	RUN	Alarm	Event	Time to Maint.	Abs. Work Time	Coolant temp.	Oil Pressure	Fuel Lev.	Batt. Volt.
AP_0616	2013-11-04 15:26:47			-	-	-242	4863	74.7°C	3.6bar	73.4	n/a
AR_AN222	2013-09-05 14:13:35			-	-	62	2574	77.7°C	4.9bar	60.4	27.9
AR_AN473	2013-09-05 14:40:38			-	-	80	1092	83.0°C	5.0bar	71.7	28.1
AR_AN241	2013-09-05 17:58:14				-	160	1021	0.0°C	0.0bar	64.3	27.2
AR_AN474	2013-09-05 14:33:27			-	-	168	1455	83.0°C	5.2bar	56.9	28.2
AR_AN223	2014-09-10 14:15:58	-		-		193	4326	999.0°C	0.9bar	0.0	25.5

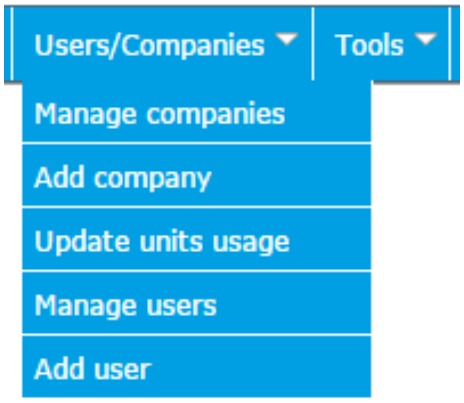
5.2 View Data (User/Admin)

The operator can visualize the "Actual" data or the "Archived", selecting the interested unit

5.3 View Events (User/Admin)

The operator can visualize all the events referred to the all the units.

5.4 Users/Companies (Admin)



5.4.1 Manage companies

It comprises the information concerning the main Company and relevant Sub-companies (if any).

Company list

<< 1 | 2 | 3 | 4 | 5 >>

Company	E-mail	Archive name	Max. units	Units in use	Parked units
SICES OIL	support.simone@sices.eu	si_SICES_OIL	100	1	0
Sices_miT	tecnico3@sicesbrasil.com.br	si_miT	4	1	1
SICES_TESTE	tecnico3@sicesbrasil.com.br	si_SICES_TESTE	5	1	0

This screenshot contains the main data; you may view Company's details by clicking the interactive header "Info".

Company	SICES OIL
Address	Jerago
Phone	0331212941
E-mail	support.simone@sices.eu
Archive name	si_SICES_OIL
Reference Company	n/a
Max. units	100
Units in use	1
Parked units	0

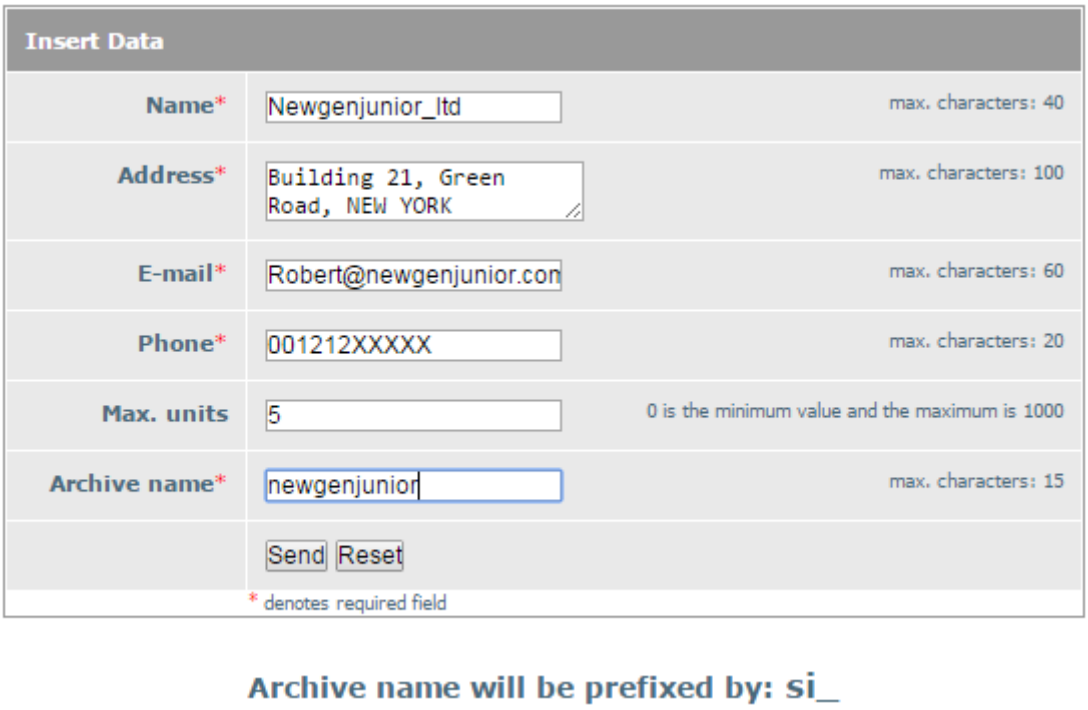
In the detail screen you may modify the fields "**Address**", "**Phone**" and/or "**e-mail**".

For any change, there is a proper window. To confirm a change of a field, you need to confirm with the button "Send"; "Click here to resume" returns you to the detail.

5.4.2 Add Company

It's possible to add **SubCompanies** linked to the main **Company**. You can set the maximum number of units for the Company; maximum limit is 30 units for each Company. Greater number can be set by the **Superadmin** (like in the image). A maximum of 7 **Admins** and/or **Users** can be create.

Fill in the fields related to the **SubCompany**.



Confirm with the "Send" button; "Click here to reset" returns you to the detail.

5.4.3 Update unit's use

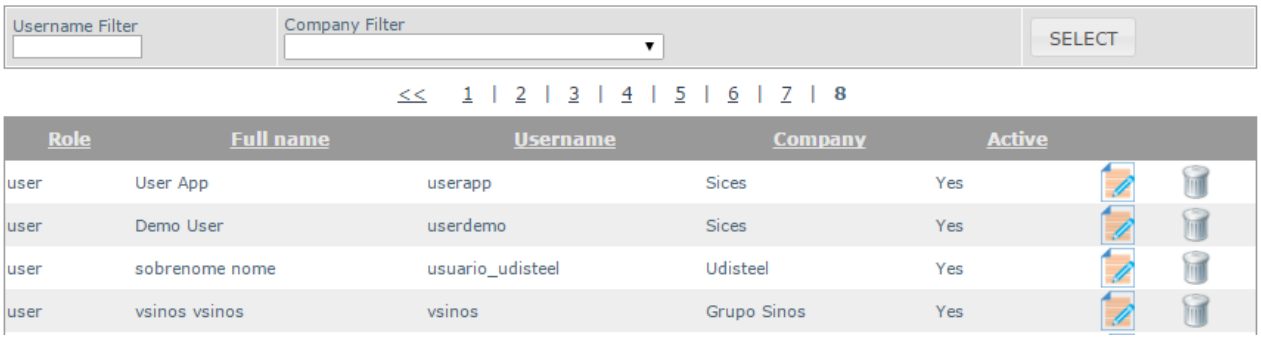
Function is used to update the actual number of used units and the number of parked units.

5.4.4 Manage users

It's possible to visualize the users entered into the system.

Archive name will be prefixed by: si_

User list



Role: access ID.
Full Name: user's Name and Surname.
Username: name used for Login.
Company: Company to which the User is assigned; assignment to multiple companies is possible.
Active: user's profile still active = "yes"; no longer active = "no".

Info: it opens a window containing information about the selected user, excluding password.
Change: you may change some data from a user's profile with a lower access level; in this case it is "**User**". For more information see par. **3.2 Access Codes**.

5.4.5 Add Users

The procedure for adding new Users is explained in detail at par. **3.1 Registration**.

The max number of users with level **SuperUser** and/or **User** for a **Company** and/or **SubCompany** is limited to 7.

5.5 Tools (Admin)

5.5.1 Procedure List

Two procedures are available.

Procedure **fiscnt** can be used if an external metering energy counter is interfaced by Modbus (using one of the extension registers). This procedure fetch the last received measure for each day and make the difference with the previous day, showing a daily list of produced energy.

Procedure **enercnt** is similar to the previous one, but uses the internal energy counter of the controller.

Procedure List

Proc. Num	Procedure	Description
1	fiscnt	This procedure allow to get report for daily energy production and measured by an external energy counter
2	enercnt	This procedure allow to get report for daily energy production and daily hours usage from controller

5.5.2 View contracts

Displays the contract with the Company managing the Service.

Contract list

Contract number	Company	Max. units	Archive name	Edit
123456	Newgen_ltd	50	si_newgenltd	Info/Edit

Click on "Info/Change" to display the details of the contract.

Contract number	123456
Company	Newgen_ltd
Contact	Mario Bianchi
Telephone	+393481234569
Expire date	2014-01-01
Max. units	50
Assigned units	n/a

5.5.3 Park list

This section shows the list of Parks, the Company, the Unit (Gen-Set) parked and the total Units for that Park (including also Units in operation and, therefore, not parked).

Park list

Park Location	Company	Parked units	Total units	Edit
Newyork	Newgen_ltd	2	2	Info/Edit

Below the Edit column, click on “Info/Edit”. It is possible to change the park's location.

Park Location	Newyork
Company	Newgen_ltd

Clicking the text "Park" you may open a textbox for changing the deposit. Confirm the change by clicking “Send”.

5.5.4 Add Park

The procedure for adding new Parks is explained in detail at par. **P3.3.1 Create a Park**.

5.5.5 View archive

It displays the archive linked to the Company.

Archive list

<< 1 | 2 | 3 | 4 | 5 >>

Company	Archive name
SICES OIL	si_SICES_OIL
SICES_TESTE	si_SICES_TESTE
datacenter	si_si_fieb
transbraz	si_si_transbraz
Skopo Engenharia	si_skopo
SPRINT RENTAL	si_SPRINTRENTAL

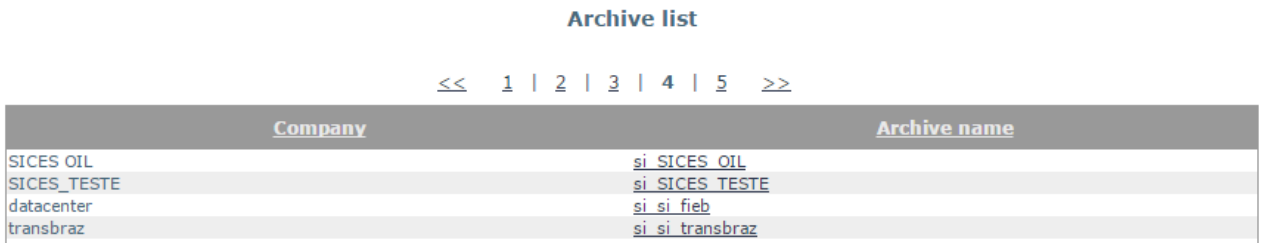
Select the name of the archive linked to the Company by clicking the interactive text under the archive name;

The window has some filters used to visualize some data view according to a time factor. **Select start day/Select end day**. Selecting the corresponding headers will open a help calendar window for defining the date. However, you may manually enter the date in the textbox, using the YYYY-MM-DD (year-month-day) format.

You can export a .pdf file of the events report and measured data by selecting the corresponding boxes and clicking "REPORT". Selecting also the "Graph" box will add, during the export, also a graph showing the Gen-Set active power.

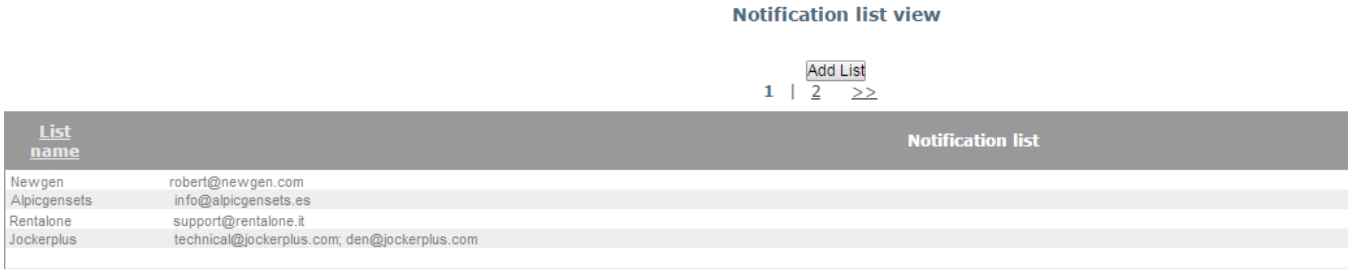
This report shows status events, measured analogue data, power graph, hour-counters and meters.

5.5.6 Tables/Reports

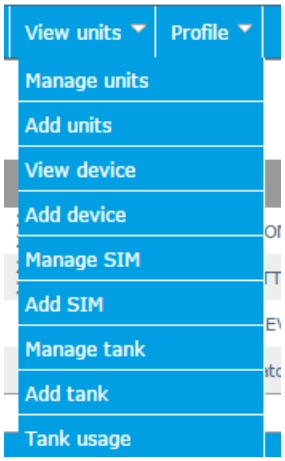


5.5.7 Notification lists

Notification lists function allows to create and manage **Notification List**. A notification list can contain a list of recipient e-mails for notification for events. A notification list must be linked with a **company**. You can link, in **Manage Units**, a notification list to one or more **units** of the related company.

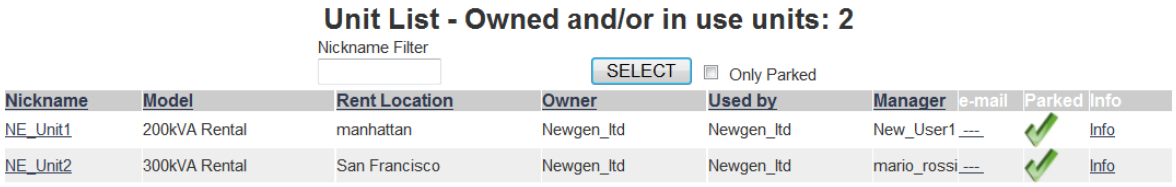


5.6 View units (User/Admin)



5.6.1 Manage units (Admin)

Window for viewing/changing configured **Units**. The columns **Nickname**, **e-mail**, **parked** and **info** contain interactive texts for changes.



Example:

NE_Unit1: displays the window **Data View** (see paragraph 4.2 Data View).

e-mail: you can enable/disable e-mails sending to the mail address assigned to the "**Manager**".

Parked: allows defining whether the Unit is parked or active in field.

Info: opens a window that allows changing some modifiable fields related to individual **Units**.

Nickname	NE_Unit1
Data type	0
S/N	000001
Model	200kVA Rental
Energy multipl.	1
Value	200kVA
Description	Rental
Parked	Yes
Rent Location	manhattan
Initial FIX	n/a
Contract Num:	n/a
Comm. Device	ID: 00001584B355; S/N: 110016
SIM info	n/a
Timezone	America/New_York
System type	Misure complete
Park	n/a
Owner	Newgen_ltd
Used by	Newgen_ltd
Send e-mail	No
Manager	New_User1

5.6.2 Add Unit (Admin)

The procedure for adding new Units is explained in detail at par. **P3.3.2 Create a Unit**.

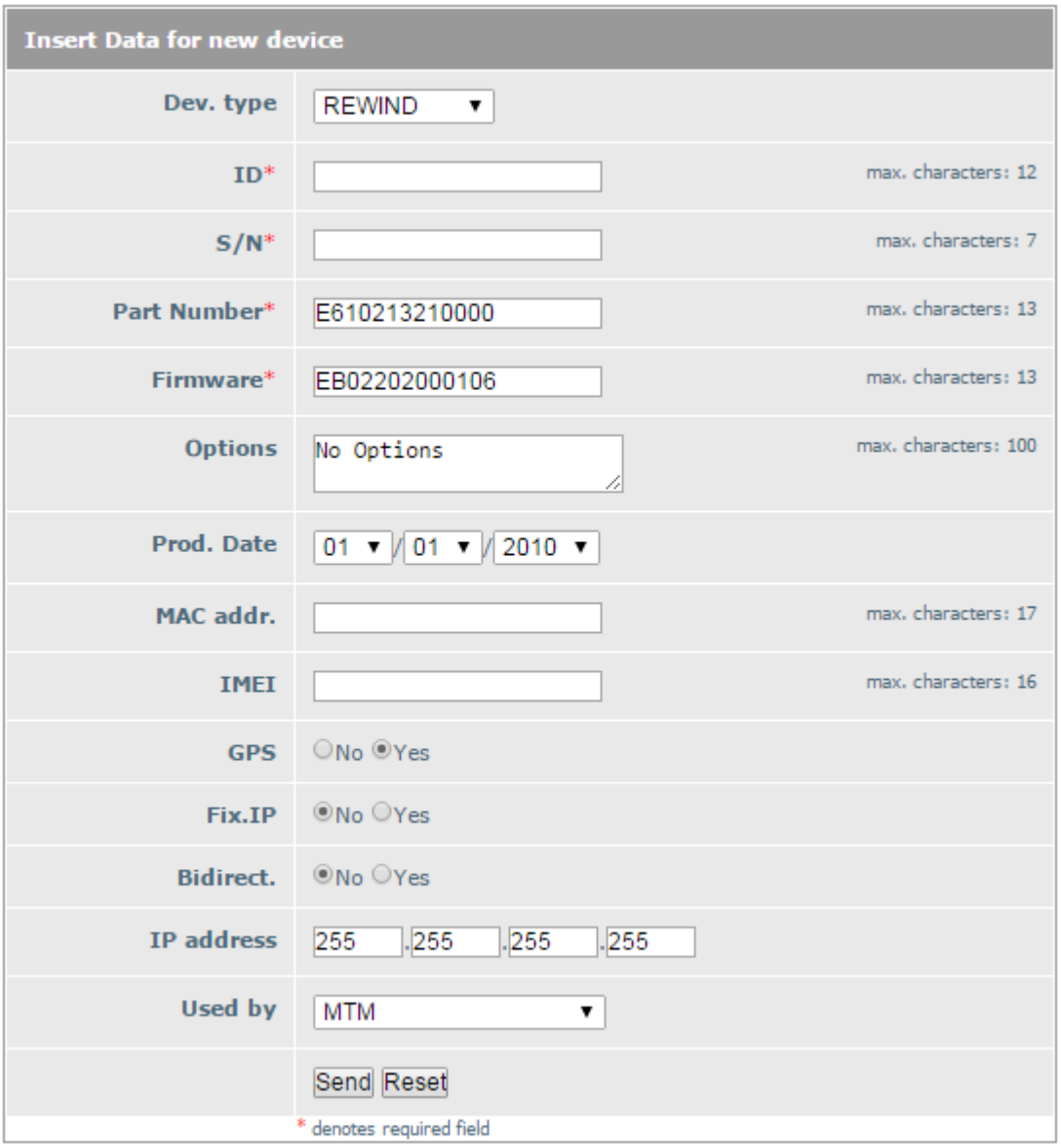
5.6.3 View device (Admin)

This section shows the REWIND/DANCE managed.

If the icon is RED The device is disabled. It can not send any message

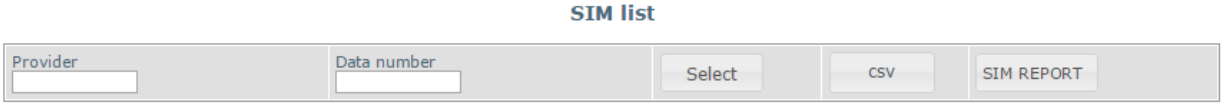
If the icon is GREEN the device is enabled. It can send message

5.6.4 Add device (Admin)



5.6.5 Manage SIM (Admin)

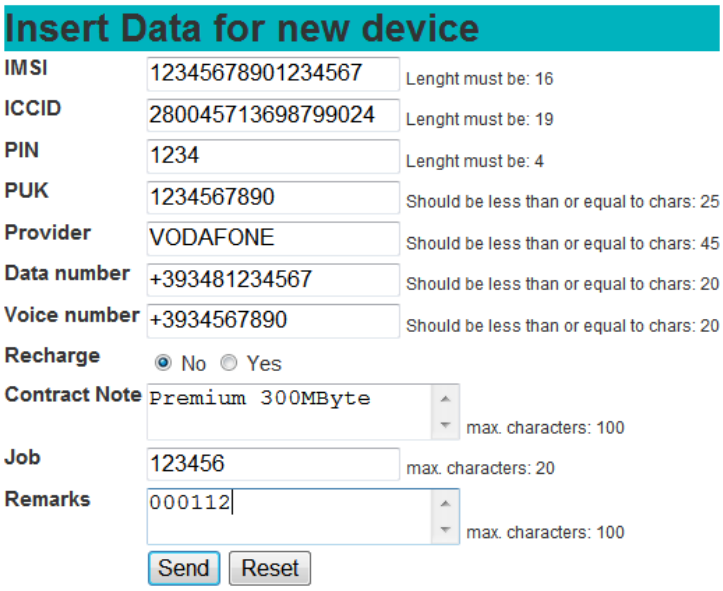
This section shows the information related to the SIM cards managed.



5.6.6 Add SIM (Admin)

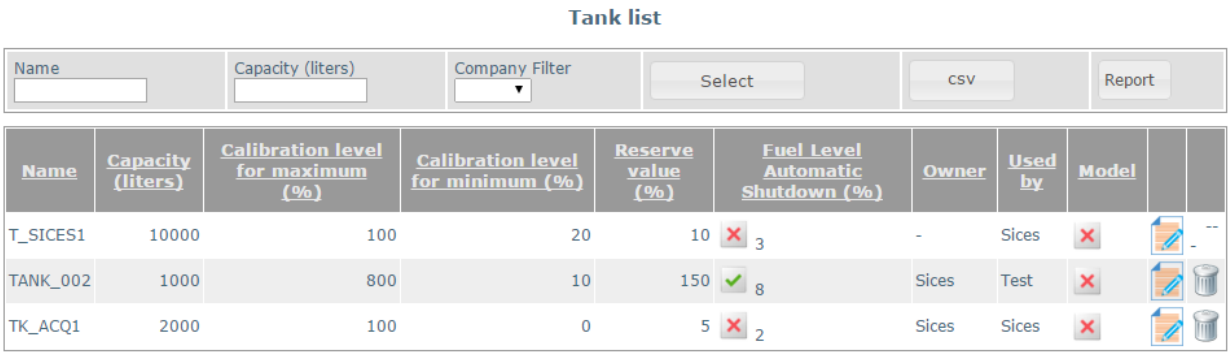
In this menu you can enter (at present, for archive purposes only) the data of a SIM Card used with REWIND.

The example shows the REWIND S/N:0001112 paired with the Unit **NE_Unit1**.



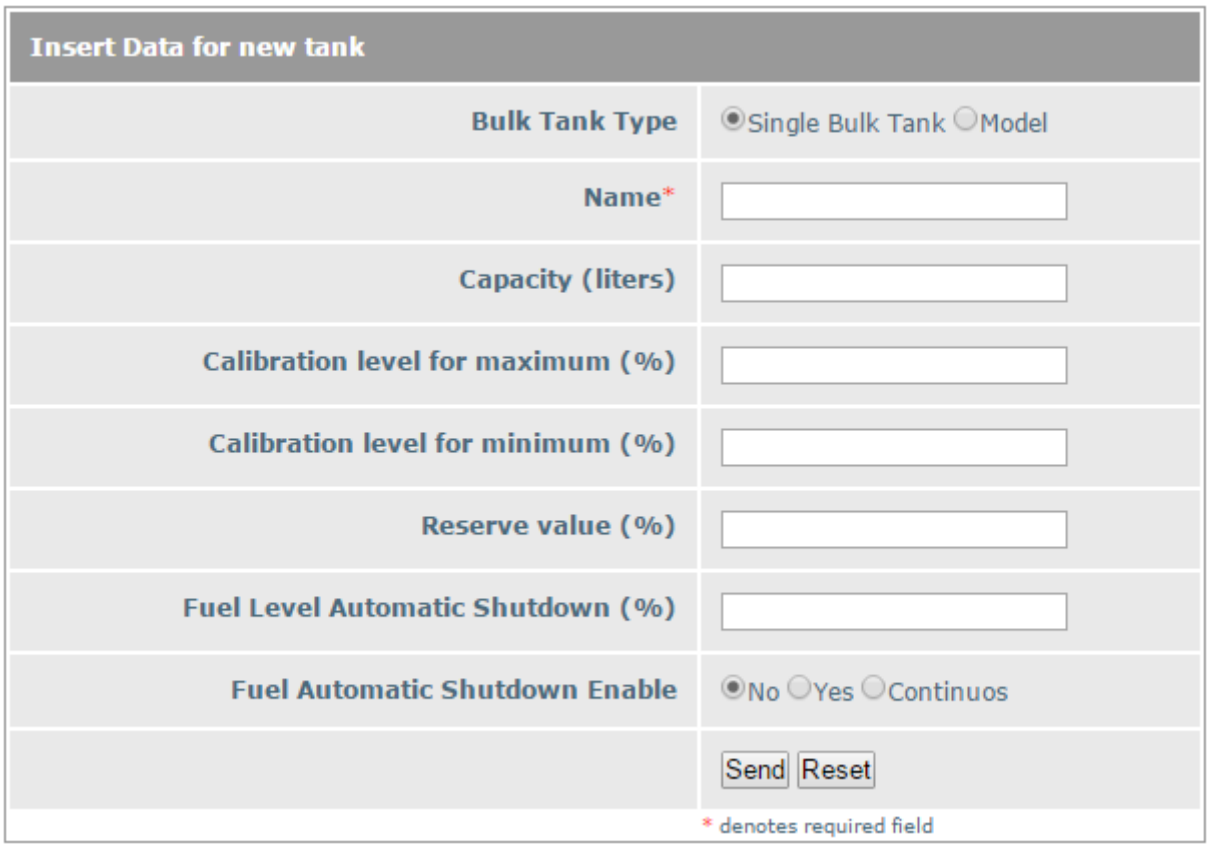
Enter the data related to the SIM(s) used in the text boxes and confirm the interactive text "Click here to save".

5.6.7 Manage Tank (Admin)



This function allows to view a list of configured FUEL TANK.

5.6.8 Add Tank (Admin)



This function allows to add external FUEL TANK.

As fuel tank select **Single Bulk Tank**.

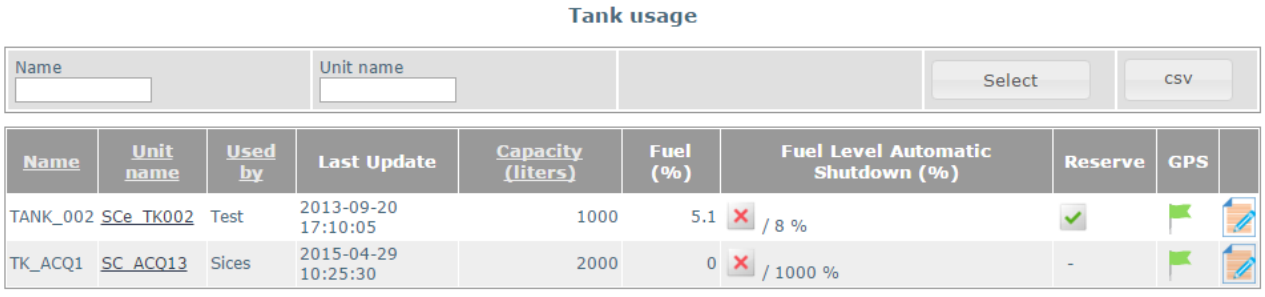
Add a **Name**, **Capacity** in litres, **Calibrations** and **Reserve** values.

If you need, add also a **Fuel Level Automatic Shutdown** and enable it.

The Fuel Tank have to supply a 0..5V fuel level signal fed to the analogue input of the device. The device should be configured for the tank, but mostly part of configuration is sent directly by the SI.MO.NE.

TANK, once added to the system, should be linked to a **units**. To do that, select the **units** in **Manage Units** and edit its configuration selecting the **Tank Name** of the tank to be linked.

5.6.9 Tank usage



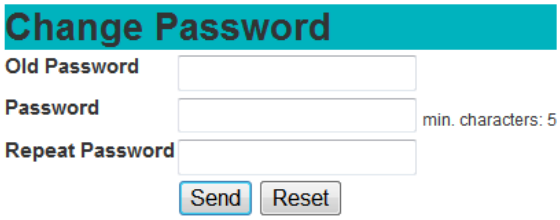
Tank Usage shows the relationship between the tanks and units, their actual status and localization

5.7 Profile (User/Admin)

5.7.1 Change Password

You may change your own **Password**. Enter the current Password and type the new one in the fields Password and Repeat Password.

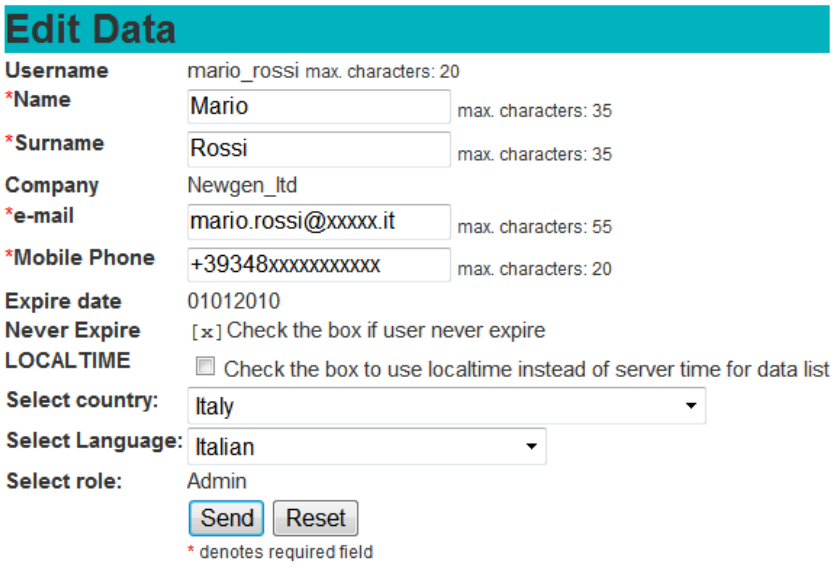
Information! *We recommend you to manually type the Password and New Password, avoiding to copy and paste the new Password in the field Repeat Password.*



To save a new Password, click on the “Send” button.

5.7.2 Profile

The window Profile allows to view and modify some information fields related to your profile.



5.8 Support (User/Admin)

The button opens the default mail client for sending an e-mail request to our Technical Support:" support.simone@sices.eu".

opens a FAQ section

5.9 Exit (User/Admin)

To Log out of the system.

6. Advanced settings

6.1 Access codes

There are 4 different PASSWORD levels:

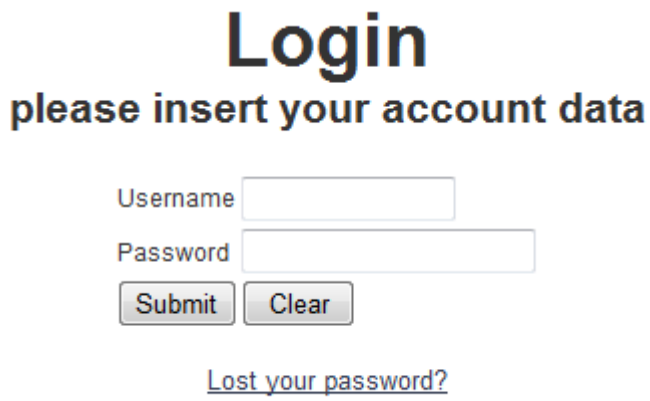
1) **SuperAdmin Password**
2) **Admin Password**
3) **SuperUser Password**
4) **User Password**

6.1.1 Login Recovery

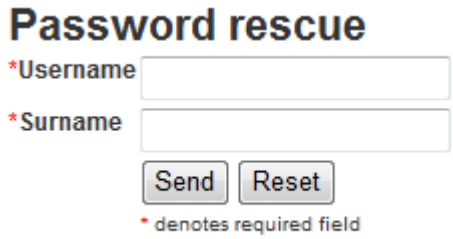
In case of loss of the Login name at Admin level, contact SICES Srl support or the system administrator, if the system is granted in concession.
In case of loss of the Login "Username" at a lower level than Admin, you must request a "Username" to a higher-level operator who is allowed to access the profile tab and the "Username" field.

6.1.2 Password rescue

Warning: in case of loss of the "ADMIN", "SuperUser" or "User" password, you can request a new password through a wizard available in the home page. To request the new password you must click "Lost your password?".



In the “Username” field enter the Login name; in the “Surname” field enter the surname entered in the registration field of your personal profile.



⚠ ***Warning: clicking the "Send" button activates an automated procedure that could definitely cancel the old password.***

It’s an automatic process of the system that, before deleting data, it verifies if the information entered in "Password rescue" match with the operator's database. However, after sending the request, there can be a delay before the e-mail with the new password is received.
The addressee e-mail to whom the new password will be sent is the one saved in the operator's profile. Be sure that this e-mail address is valid, otherwise the new password will be not delivered.

⚠ ***Information: the password field is only visible when registering the operator's profile.***
It is not possible to ask for higher access level operators to verify one's own password as it is not visible.

6.2 Event codes

SI.MO.NE Event codes

Event code suffixes		
WEB_		from Web pages
REW_		Signalling generated by REWIND
MES_		Messages generated by the MeSSer service
SIC_		Events detected by a Sices board (DST4400, DST4601/PX, GCxxx)
DSE_		Events detected by a DSE board
BRD_		Events detected by a generic board

Events generated by Web management:		
WEB_000001		Parked
WEB_000002		Not parked
WEB_000003		Slave_IO not working
WEB_000004		Slave_SQL not working
WEB_000005		Slave errors

Events generated by the service :		
MES_ZR01		MeSSer 1 Ver.1.0.3.1 STARTED
MES_ZR02		MeSSer 3 STOPPED
Examples of Warnings by a Sices board (code and description from the board):		
SIC_W077		External 24 V DC fault
SIC_W202		WRONG GEN. NUMBER ON BUS PMCB
SIC_W014		GCB NOT CLOSED
SIC_W024		GCB NOT OPEN

Examples of Deactivations by a Sices board (code and description from the board):		
SIC_D003		MINIMUM GEN-SET FREQUENCY
SIC_D089		MT Switch Open

Example of Blocks by a Sices board (code and description from the board):		
SIC_A024		GCB NOT OPEN

Events / status from a Sices board		
SIC_EV001		ENGINE STARTED
SIC_EV002		ENGINE STOPPED
SIC_EV003		not defined

Example of Warnings/Alarms from DSE board		
DSE_W010		Low generator voltage
DSE_S001		Emergency Stop
DSE_S007		Failed start-up
DSE_W616		Flexible Sensor High

Events from REWIND (code and description generated by REWIND):		
REW_RW01		REWIND STARTED
REW_RW010		LOW BATTERY LEVEL
REW_RW012		SERVICE REQUIRED
REW_RW013		(XXX) m DEVIATION DETECTED
REW_RW014		ENERGY SAVING ENABLED
REW_RW015		GSM CONNECTION TERMINATED
REW_RW016		NEW PARAMETERS RECEIVED
REW_RW017		MODEM RESTART (SIGNAL)
REW_RW018		MODEM RESTART (STATUS)
REW_RW211		ENERGY SAVING DISABLED

Example of events from REWIND digital inputs (code and description are parameterizable by REWIND)		
REW_I001		ENGINE STOPPED
REW_I005		TOWER IN STANDBY
REW_I006		LOW OIL LEVEL DISABLED

6.3 Servertime/Localtime

In order to exactly define when an event occurred and/or a data packet was sent to the **REWIND** device, you must use registrations/hours.
These registrations can be viewed between **Server time** and **Local time**:

- **Server time:** Server registration time. The Windows service installed on the server receives the data packets sent by the REWIND devices. This is the registration time at the moment the server receives the data packet.

  Information: *Servertime time could differ from Localtime because of delays due to data packets send, time zone etc...*

- **Local time:** registration time by the device depending on geographic location (time zone). The **REWIND** device detects all the events and periodical data and stores them temporarily till transmission is complete.
  For a correct acquisition of the **local time** time, the following three basic parameters are required: **UTC** (Universal Time Coordinated)+**Time Zone**+**Legal time**.

The viewing sequence can be defined at any moment as **UTC**, **Servertime** and **Localtime** record the time into the database.

6.3.1 Configuring Localtime

The **Localtime** registration depends on several parameters:

UTC (Universal Time-Coordinated): The universal coordinated time (namely, UTC) is the new world reference time, used in lieu of GMT (Greenwich Medium Time) because of accuracy of measures.

Time Zone: The "**Time Zone**" is not acquired by REWIND; it must be set in the **Unit** configuration and is referred to the geographic location where the **Unit** (gen-set) is installed.

Daylight save time: depending on the country where the device is installed.

The REWIND device can acquire the UTC time in two different modes.

- In case a GPS (Global positioning System) option is installed and/or satellite coverage is ensured, the UTC time is directly sent by the satellite for use by the device.
- In case no GPS (Global positioning System) option is installed and/or satellite coverage is not ensured, the UTC time is directly acquired by the REWIND during the first valid communication with the service Server.

During the first valid communication, the Server will send REWIND a data packet containing the three parameters for the local time, i.e.: UTC, Time Zone and Legal Time. REWIND will save the information packet received; for the following dispatch, it will use the data related to Time Zone and Legal Time received and the UTC by the REWIND, if the GPS is available, or by the SERVER in case the GPS is unavailable.

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