# Telemetry Server - Exemys
# Quick Guide: **WEB site**

## Introduction

This quick guide is oriented towards GRD equipment users that contracted access to the Exemys **Telemetry Server GPRS** and that wish to display information on a WEB page.

This document assumes that you already connected the GRD to the server. If you have not already done this, please read the guide **How to Connect a GRD** to the Exemys Telemetry Server.

## Necessary Elements

• GRD Equipment functioning and connected to the telemetry server
• USB Configuration Cable
• GRDconfig Software (Link)
• Telemetry Server Configuration Form (* Note 1)

(* Note 1) Upon contracting the service, you should receive a Configuration Form with the Telemetry Server information and how to configure each GRD that you will connect.

## Configuring reports and historical records in the GRD

Before configuring reports and historical records, if you are going to use analog inputs you should select the type of input (voltage or current) and configure the internal jumpers of the equipment (only in the models with jumpers). For more details, please read the user's manual that is installed with the GRDconfig software (Section "GRD Installation / Connections – Inputs/Outputs").
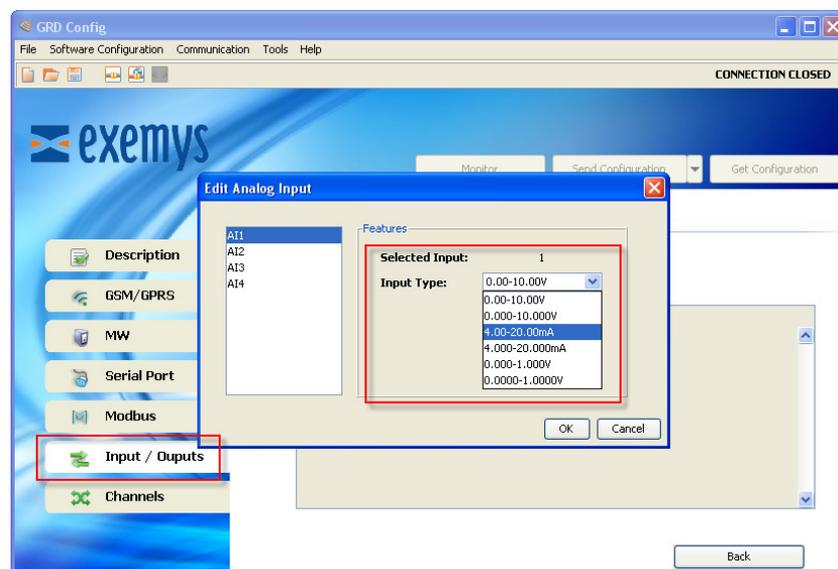
After connecting the GRD to the server, you must configure what criteria will be used to notify the changes to the inputs of the equipment to the server (reports) and what criteria will make the history records. If in doubt, read to the GRD Manual, section "Historics and Reports".

It is suggested to enable the reports by change of the digital entries and by percent change of the analog entries to a change of 5%, plus a report by time every 5 minutes.
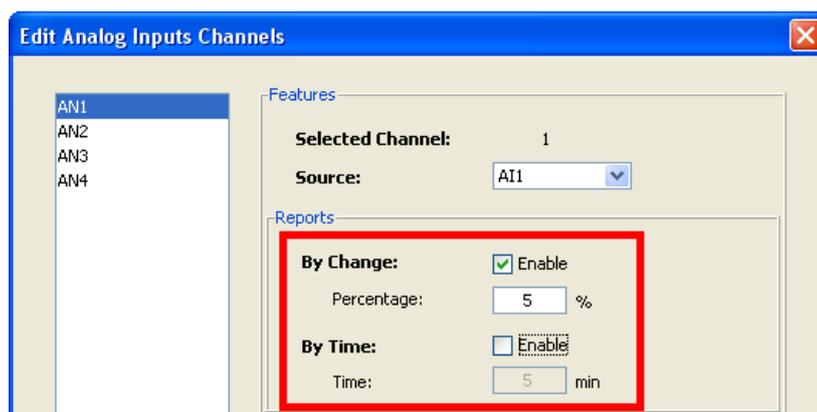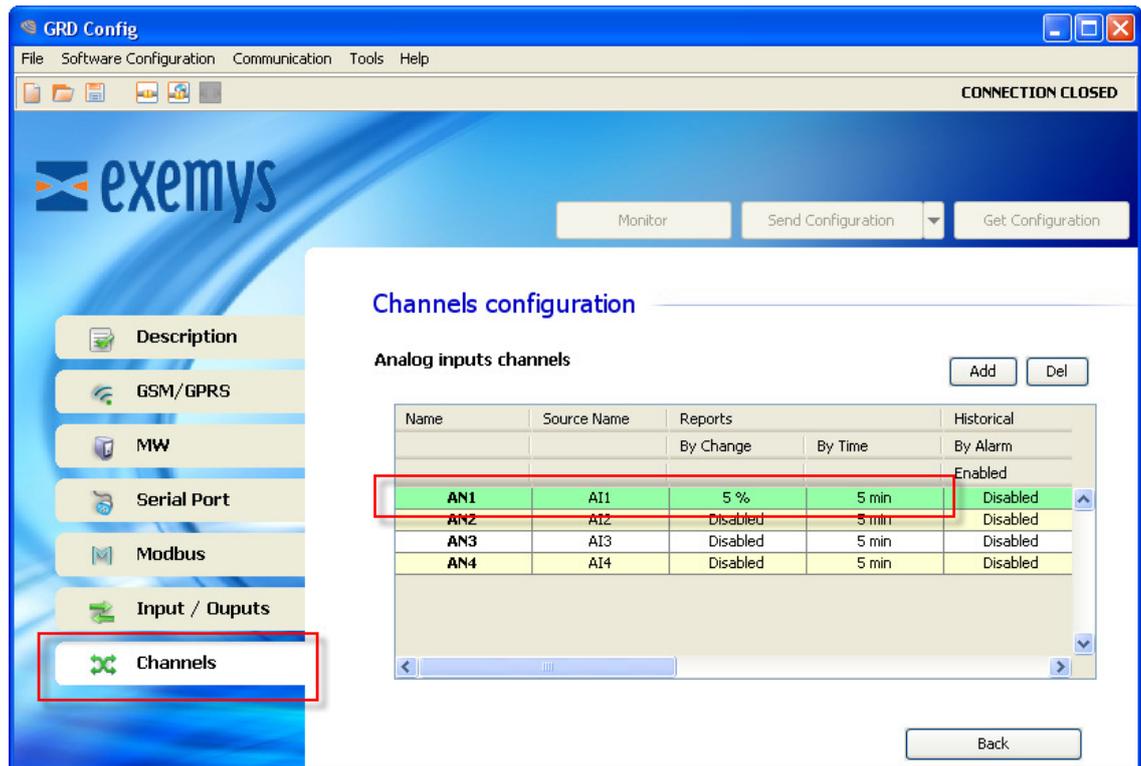




With respect to the historical records, it is recommended to enable only the record of entries that interest you. In the case of analog entries, there are two criteria to make records, by Alarm and By Time.
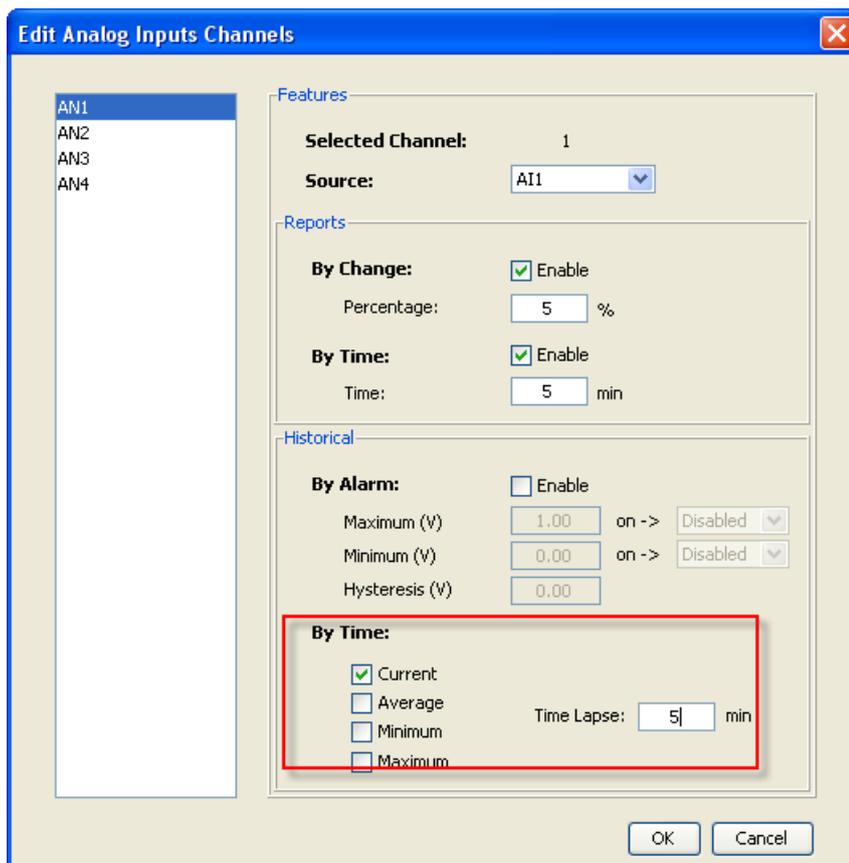
Remember that unlike the "reports" these records will generate and store in internal memory although the GRD is not connected with the server.

If you wish to add Inputs/Outputs obtained using the Master Modbus incorporated, please read the section "Inputs/Outputs Modbus External" in the manual.

## Access to the WEBsite

Open your Internet browser and direct it to the URL indicated in the sent documentation.

Then enter using the username and password for "WEB User Access" or "WEB Admin Access".

| WEB user access | |
|---|---|
| URL | m2m.exemys.com |
| User | siuser |
| Password | rju397 |

| WEB admin access | |
|---|---|
| URL | m2m.exemys.com |
| User | siadmin |
| Password | bte5412 |

| **Display** |
|---|

### Navigation

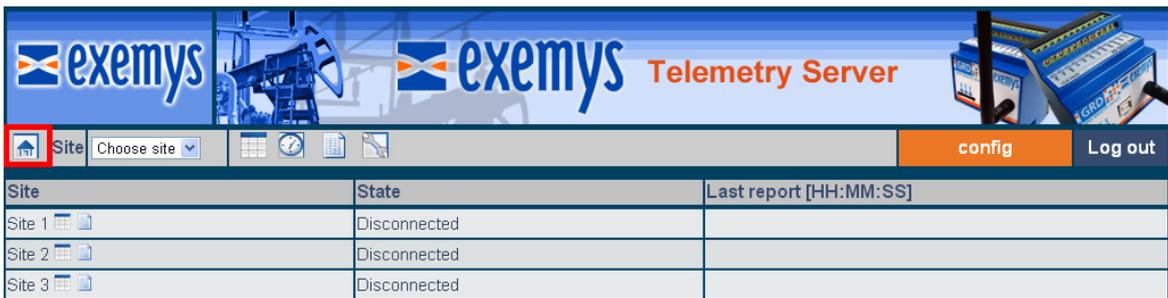It is possible to display the following pages:

   Homescreen

   Current

   Mimic

   Records

   Configuration (only with admin permission)

It is possible to navigate through these pages using the top bar or **by clicking on the shortcuts that you will find on the different screens.**

### Homescreen

In this screen you will see the status of the connection of each GRD with the server. You will also see the time elapsed since the last report submitted by the GRD.
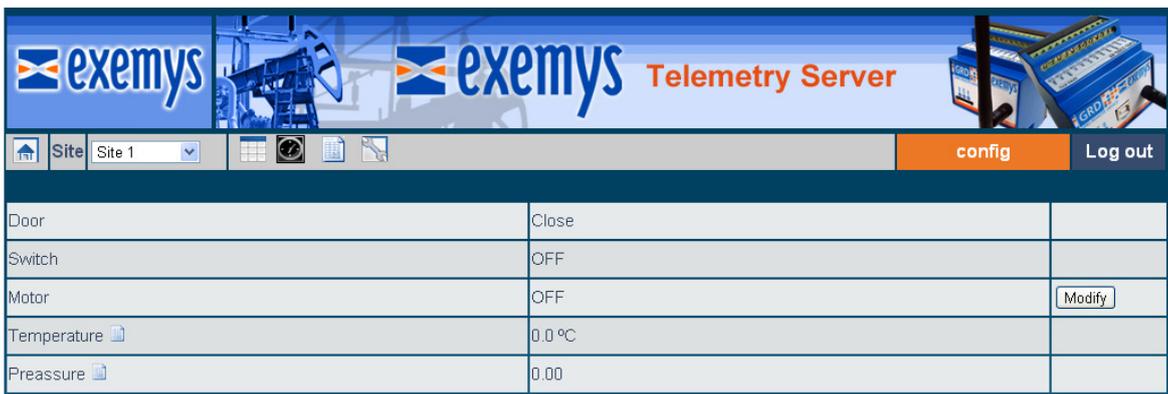


Below the table with the status of the connections, you will be able to see the alarms sent by the server via email. The recipient, the email, the sent text, the date sent and the result.

### Current (Reports)

Here the values of the GRD inputs and outputs are displayed. These values are updated according to the criteria of the reports configured in the equipment.



To configure how to display each variable, you must access the configuration page. You can only do this if you enter the system as a user with configuration permission.

If the variable is a digital output, its status can be changed by pressing the Modify button.

### Mimics

The information presented in the current page in table form can also be presented in graphic form.

From your computer, you will be able to change the background image for each GRD and select between different types of objects in a way to represent the inputs and outputs. The details of how to accomplish this are explained in the Configuration Section.



If you enter the WEB site with user permission, upon clicking the objects linked to digital outputs a window will be displayed to change the status. If the object is linked to an input, it will open the Records Page with that pre-selected input.

If instead you have admin permission, you will be able to move each object to the position you consider appropriate. The position will be stored in memory.

## Records

Here the historical records of the inputs and outputs of the GRD are displayed. These records are generated according to the criteria configured in the equipment.
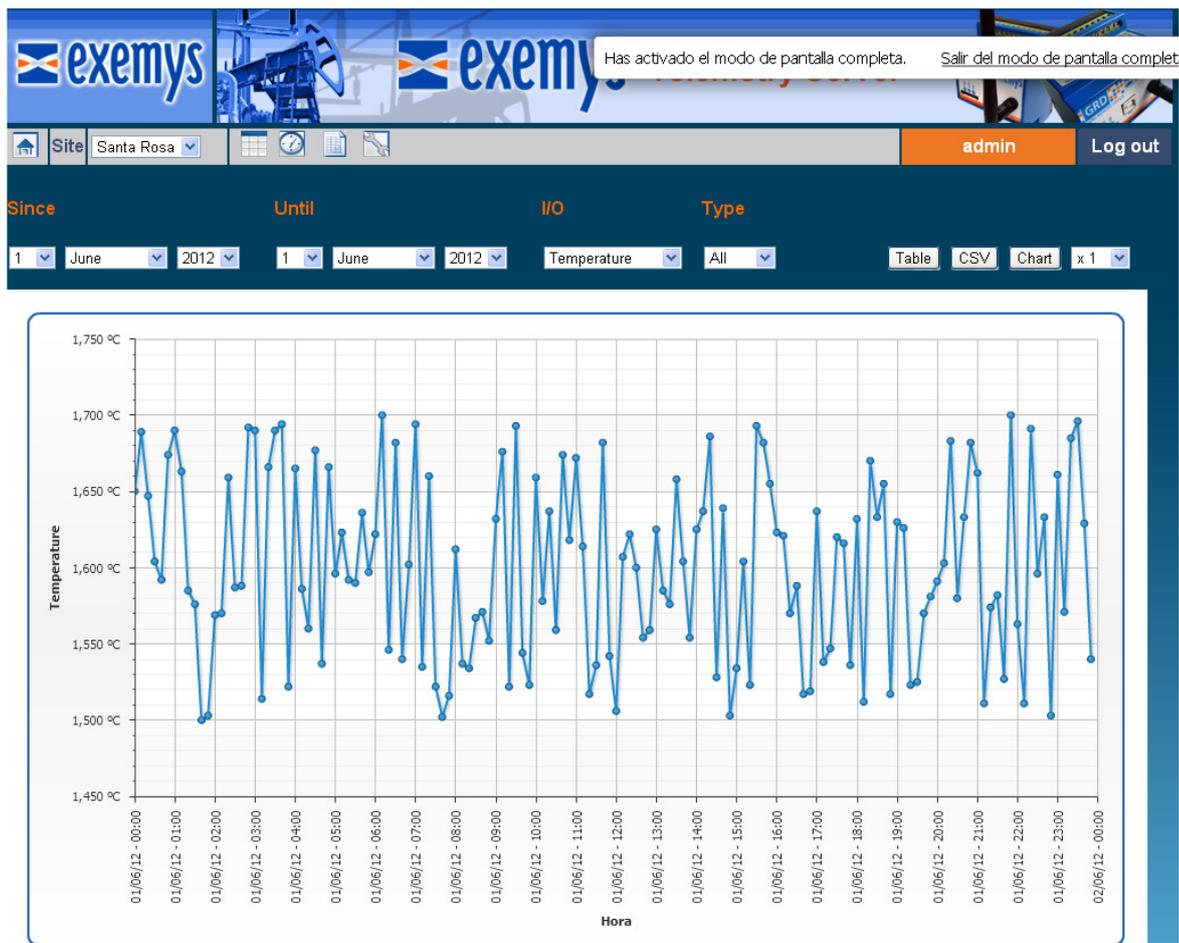
You should select the GRD and the variable from which to view the records. In the case of an analog input, you will select what type of history you want to view.

Here you will be able to display the data in a table, a graphic or download it in a type file CSV (compatible with Excel).

If you use current page shortcuts, the name of the entries will be pre-selected.

**Configuration**

To be able to access this page, you must enter as a user with "Configuration WEB Access".
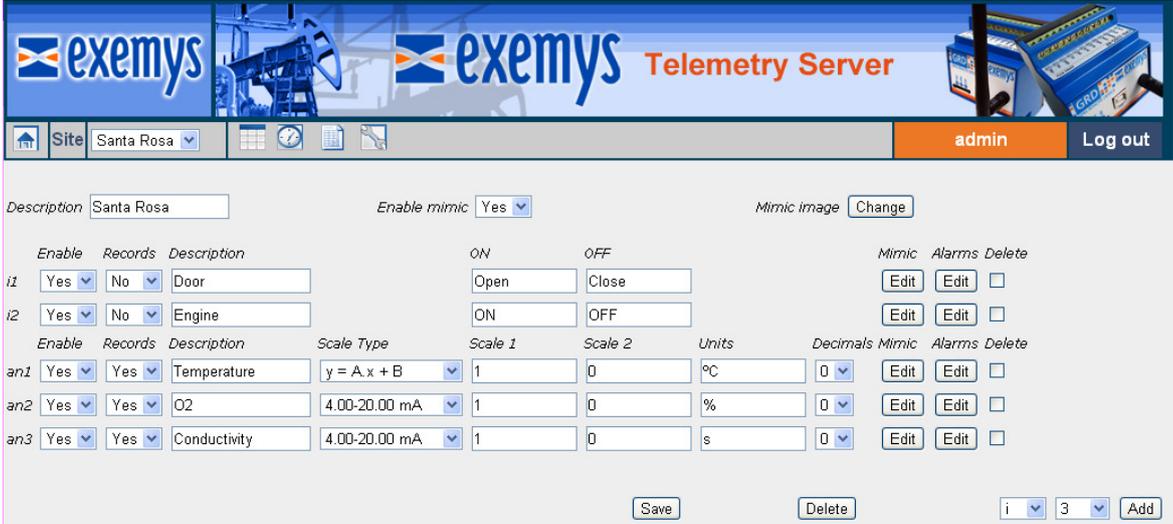
The first thing that you should do is select the GRD that you wish to configure. Then you will be able to set up the name that will show in the field "Description".

In all the inputs/outputs, the following parameters can be configured:

- Enable: If it will show or not in the other screens
- Records: If the I/O shows or not in "Records"
- Description: The description of the input/output
- Mimic: Open the mimic configuration window of the input/output
- Alarms: Open the alarm configuration window of the input/output

In the digital inputs (**Ix**) and digital outputs (**Ox**) you can also configure:

- ON: The text to show when activated
- OFF: The text to show when deactivated

In the analog inputs (**ANx**) and pulse inputs (**Px**) you can also configure:

- Scale Type: In the case of analog signals, in the majority of the cases, this configuration should coincide with the selection in the GRD (0-10V, 4-20mA). You can use the scale type "y=A.x+B" for Modbus records or pulse inputs.
- Scale 1: If you choose scale type "y=A.x + B" here you should place the value of A. If you select another type of scale, this value will be that which corresponds with low value (for example 4.00 mA)
- Scale 2: If you choose scale type "y=A.x + B" here you should place the value of B. If you select another type of scale, this value will be that which corresponds with high value (for example 20.00 mA)
- Units: Indicate the units in which the measured quantity is to be expressed.
- Decimals: Indicate how many decimals to show the magnitude.

If you wish to add more inputs/outputs, use the Add button. The input/output add also should be configured in the GRD.
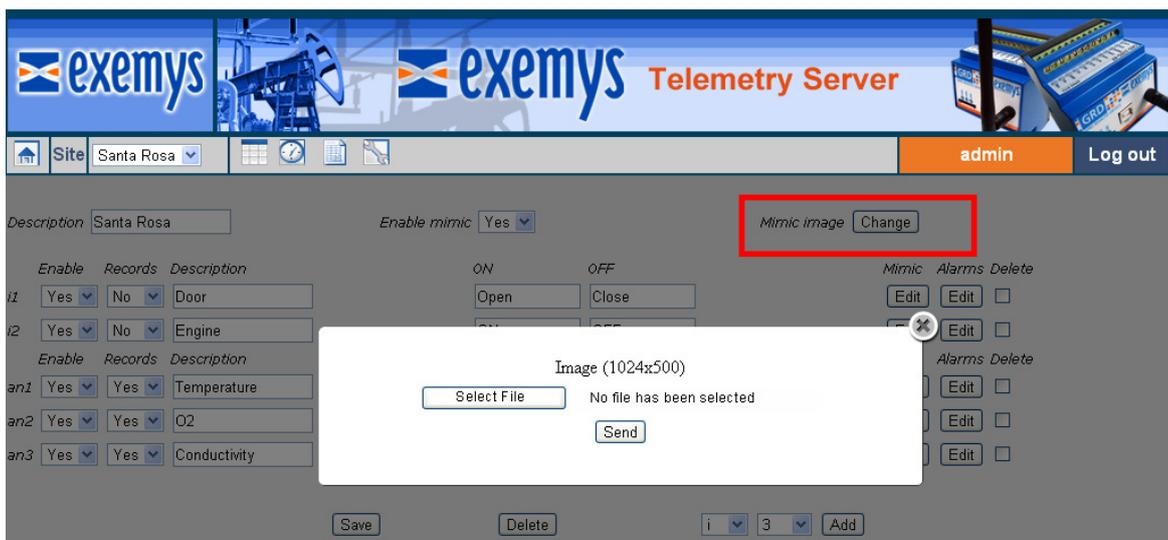
To delete inputs/outputs, select the checkbox Delete and then press the Delete button.

## Mimic Configuration

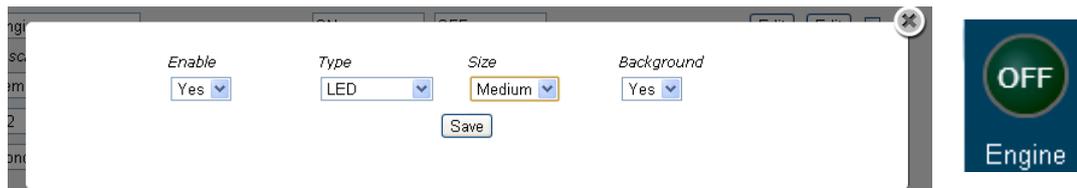To use the Mimic Page option, you must enable it in each GRD.
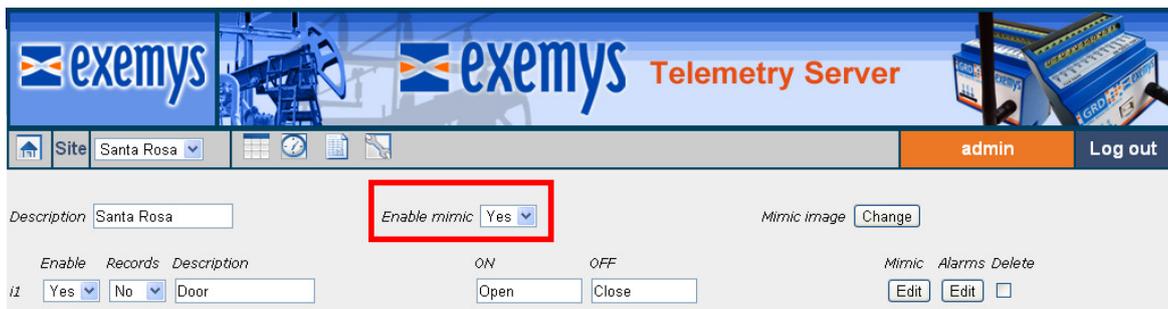


Then you can choose to upload a background image to display in each mimic of every GRD.



To continue, edit the mimic options of each input/output.

For the digital inputs/outputs, you will find the following options:



- Enable: Allow or not to see the object on the mimic.
- Type: Select what type of object will display the variable. For example, a lamp.
- Size: Choose between small, medium or large.
- Background: Place a rectangular background behind the object.

For the analog inputs and pulse inputs, you will find the following options:
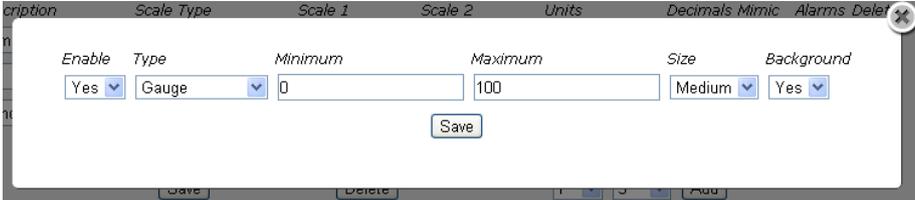


- Enable: Allow or not to see the object on the mimic.
- Type: Select what type of object will display the variable. For example, a clock.
- Minimum and Maximum: Choose the minimum and maximum values of the selected object.
- Size: Choose between small, medium or large.
- Background: Place a rectangular background behind the object.

## Alarm Message Configuration

The Telemetry Server has the capacity to generate alarm messages (emails) based on the historical records from the GRD.
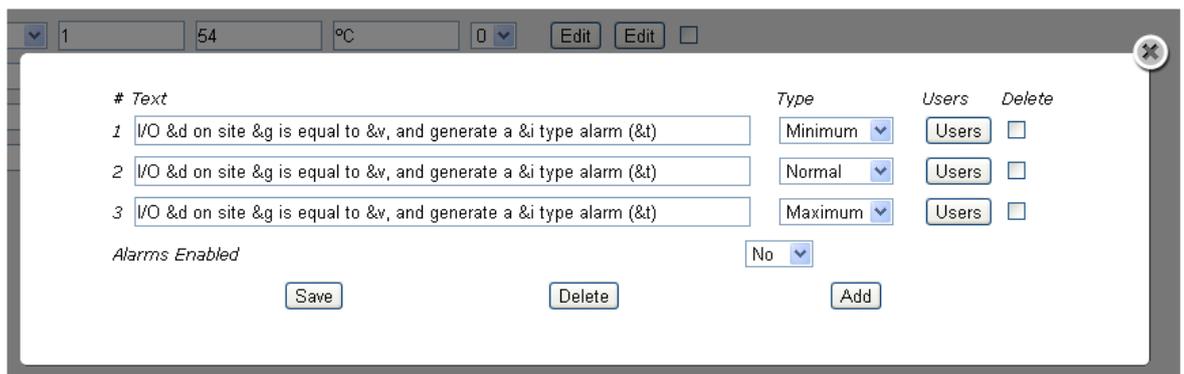
In the case of digital inputs and outputs, messages can be sent upon receipt of historical change in status.
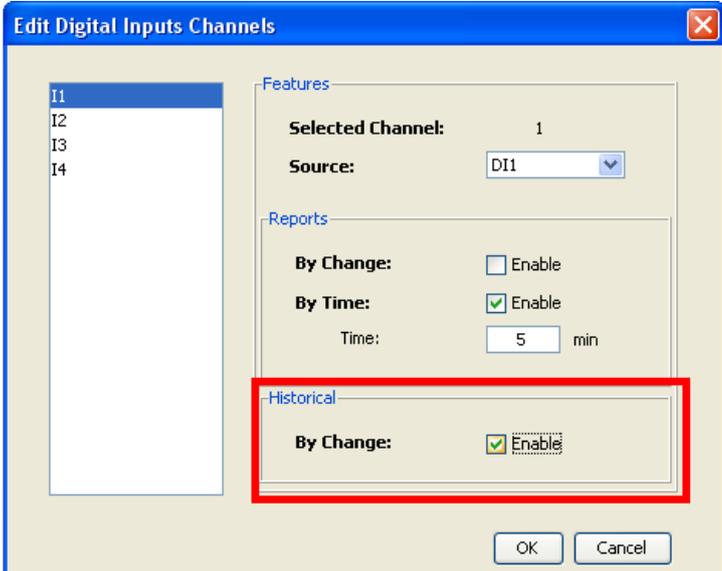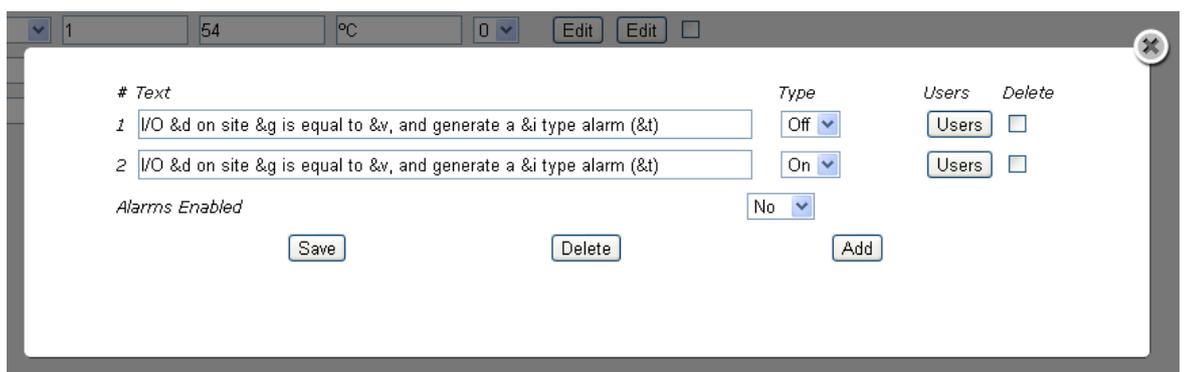


For the analog inputs, messages can be generated based on historical maximums and minimums configured in the GRD.
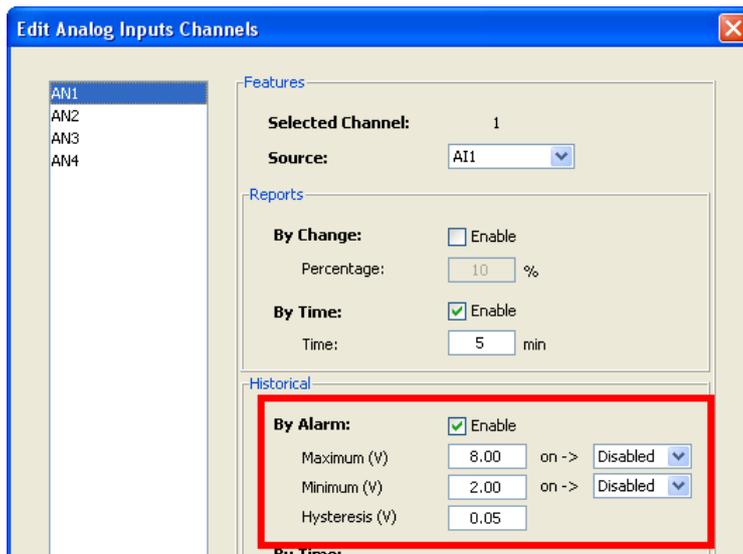
Once configured, you can enable the alarms and write the text to be sent in each situation.



*Digital Inputs/outputs*



*Analog Inputs*

To facilitate the generation of text messages, the following *tags* were created:

- *&d*    Description of the input/output
- *&g*    Description of the GRD
- *&v*    Value of the input/output with units

- *&i*    Type of alarm
- *&t*    Record timestamp

Finally, you must configure in each message what users are going to receive it. Press the "Users" button and enable the users to receive the message.



If the selected user does not have an email set up, you can equally enable it and the message will be seen on the homescreen. An email will simply not be sent.

If you need to add a new recipient of emails, write us at support@exemys.com asking for the user authorization, the name of the project and the email address.

The possible results of sending a message are the following:

- **Sending:** The message is being sent at that moment.
- **OK**: The message was sent correctly.
- **Discarded:** The message was not sent. This can occur because the user email was not configured or because many alarms of the same GRD type were received in the same shipment. The server will send only one of them.
- **Error:** The message failed to send.

## To Finish

If you wish to change the image shown on the top left, please send us an email indicating the name of the project along with the image of 180 x 100 pixels

The WEB site of the telemetry server is constantly improving, so you may find some differences between the commentary in this document and that which you can see in the WEB.

Request the current version of this document if you see differences between the WEB site and the images of this document.

If you have any questions, please write us at support@exemys.com



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