

# User Manual

## *For*

# SeaConfigurator



<b>1.</b>	<b>USED SYMBOLS.....</b>	<b>1</b>
<b>2.</b>	<b>ABOUT SEACONFIGURATOR.....</b>	<b>1</b>
<b>3.</b>	<b>INSTALLATION .....</b>	<b>2</b>
<b>4.</b>	<b>FIRST START OF THE PROGRAM .....</b>	<b>7</b>
<b>5.</b>	<b>CONFIGURATION .....</b>	<b>9</b>
5.1	THE BASICS FOR CONFIGURATION.....	9
5.1.1	<i>Change Station configuration .....</i>	<i>9</i>
5.1.2	<i>Data Backup, Load Configuration from a File .....</i>	<i>10</i>
5.1.3	<i>Add a New Action, Edit and Delete Action.....</i>	<i>11</i>
5.2	GENERAL CONFIGURATIONS.....	13
5.3	USERS SETTING .....	17
5.3.1	<i>Change the Password.....</i>	<i>17</i>
5.3.2	<i>Add a new user.....</i>	<i>18</i>
5.3.3	<i>Creation the User Group.....</i>	<i>20</i>
5.4	INPUT AND OUTPUT SETTING.....	21
5.4.1	<i>Digital Outputs.....</i>	<i>21</i>
5.4.2	<i>Digital Inputs .....</i>	<i>24</i>
5.4.3	<i>Temperature Inputs .....</i>	<i>26</i>
5.4.4	<i>Alarm Circuits.....</i>	<i>29</i>
<b>6.</b>	<b>MONITORING.....</b>	<b>31</b>
<b>7.</b>	<b>STATION SELECTION .....</b>	<b>32</b>
7.1	STATION MANAGER .....	32
7.2	ADD THE STATION .....	33
<b>8.</b>	<b>UPLOAD NEW FIRMWARE.....</b>	<b>34</b>
<b>9.</b>	<b>CONFIGURATION SERVER GPRS.....</b>	<b>35</b>
9.1	FIRST LOGIN.....	35
9.2	REPEATED LOGIN AND CONNECTION TO GPRS SERVER .....	38
9.3	CONFIGURATION AND MONITORING VIA GPRS SERVER .....	39
<b>10.</b>	<b>UPLOAD SEACONFIGURATOR .....</b>	<b>40</b>

## 1. Used Symbols



*Questions*



*Examples*



*Information*

## 2. About SeaConfigurator

SeaConfigurator is a program created by SEA Ltd. which is used for configuration of products series GSM RELAY 3 from PC via USB cable or via GPRS. USB cable is contained in a package of all GSM products series GSM RELAY 3. The Program SeaConfigurator you can download on web sites [www.seapraha.cz](http://www.seapraha.cz) for **FREE** and without any limitation. Thanks this program you can change many parameters of GSM RELAY.



*Examples and FAQ you can find on web sites [www.seapraha.cz](http://www.seapraha.cz) in the category **GSM Products** → **GSM application for home** → **Examples and FAQ***



*Connection via GPRS is possible only for stations with FW 1.0.12 and higher!!!*

### 3. Installation

This chapter is your guide how to install the SeaConfigurator program to your PC. If you follow the instructions, the installation should be successful and the program should be prepared for use.



*How to start the program installation?*

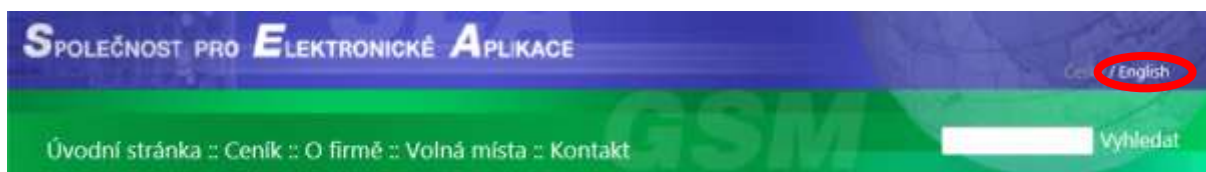
1. If you have opened older version of SeaConfigurator, close it.
2. If you have connected the station to the computer, please disconnect it.



3. Open the web browser and write [www.seapraha.cz](http://www.seapraha.cz).



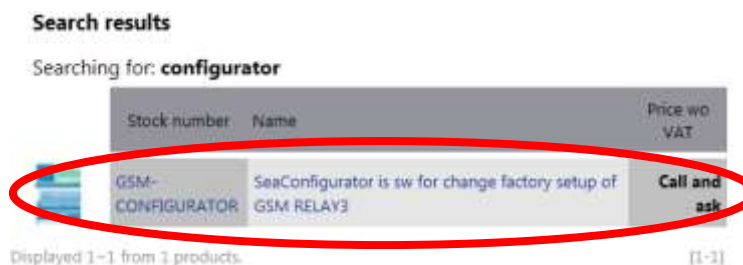
4. Click on **English** language.



5. Into the box for browsing write text configurator.



6. Start the search by clicking on the **Search** button on the right side of the browser box.
7. Click on **GSM-CONFIGURATOR**.



8. The homepage of the program *SeaConfigurator* is displayed. For downloading the installation file into your computer click on *here* on this page.

## SeaConfigurator is sw for change factory setup of GSM RELAY3

### Basic Characteristics

This application will let you to control easily GSM RELE 3 from PC via USB port or GPRS.  
Application is freeware.  
Older program version are available [here](#).

### Requirements

Adobe AIR which is part of installation software.

9. In the menu which will displayed the web browser window, click on *here*. Downloading of the file can take time, depends on internet connection speed.
10. Installation of the program SeaConfigurator will start.
11. At first choose the language. If you want the program in English, check if you choose *English* in the list box.



If not, please click to the list box and select the *English*.

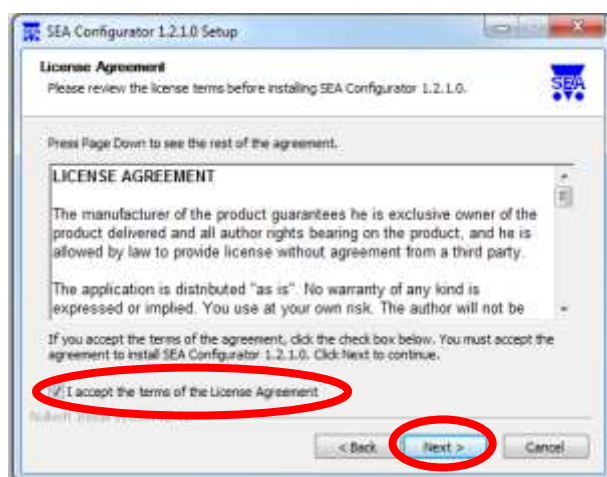
12. Click on **OK** to accept the language selection.
13. In the next step you will see *SeaConfigurator Setup Wizard*. Click on the *Next>*.



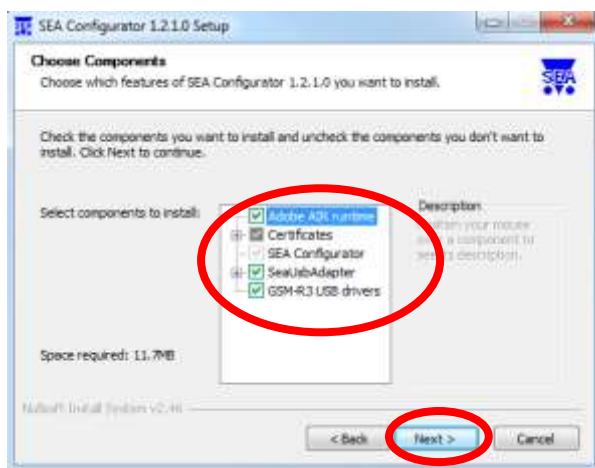
14. In the next page of Scan Wizard please read thoroughly *License Agreement*. By clicking to the checkbox tick off *Acceptation with License Agreement*.



*Attention! Without acceptance is not possible to continue with the installation!*



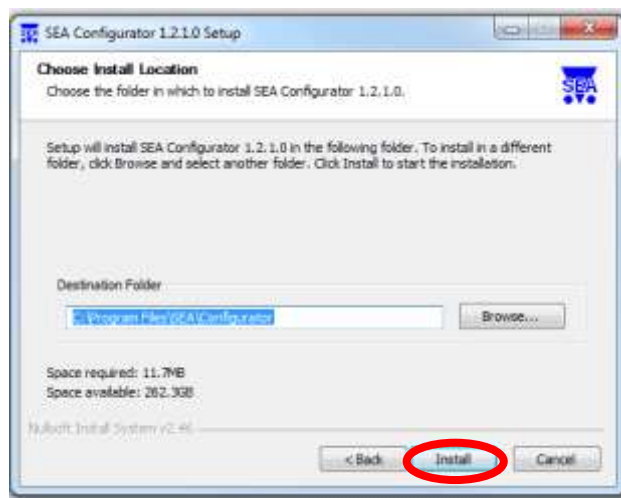
15. Click on the *Next>*.
16. On the next page you can choose which program parts do you want to install. If you install SeaConfigurator for the first time, leave *all checkboxes* ticked off (*recommended*).



17. Click on the *Next>*.

18. In the next step you have to choose a file location, where will be the file installed. You can leave the file on the default location (*recommended*).

If you want to change the location you can click on **Browse...** and you choose the way to the new file location and after that click on **OK**.



19. To start the installation of chosen files, click on **Install** and SeaConfigurator installation will start.

20. After a while the window *The Certificate Import Wizard* will open.

Click on the *Next>*.

21. In the next step you can choose the location of the certificate. If you can save the certificate to the default location, select *Automatically choose the location of certificate file (recommended)*.

If you want a different location of file choose *All certificates save to the next location*.

22. Click on the *Next>*.

23. The window *Completion of the Certificate Import Wizard* will open. Certificate will be imported by clicking on the *Finish*.

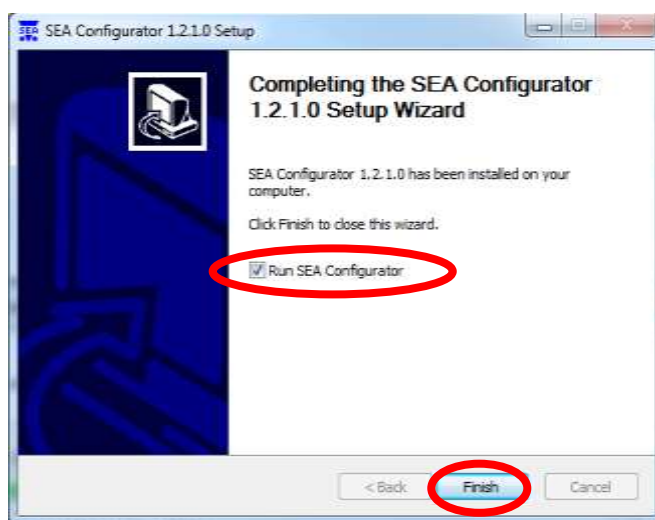
24. If the installation of the certificate is successful, the information window *The import was successful* is displayed. Please click on *OK*.

25. The second *Certificate Import Wizard* will start. Repeat all following steps from 19 to 24.

26. The last window informs you about *Completing the SeaConfigurator Setup Wizard*. If you leave ticked off the check box *Run SEA Configurator*, the SeaConfigurator will start automatically.


If you do not want to open SeaConfigurator just now, click to the checkbox, after that you can open the program by double click to the icon *SeaConfigurator* on the desktop of your computer.

27. Click on *Finish*.





*How I know that the installation was successful?*

28. After the installation the icon  will appear in the system tray (next to the clock). If it is blue, installation was successful.

If the icon is red, probably an error occurred during removing the previous version. In this case, perform the following steps:

- 1) Restart the computer.
- 2) Install the *SeaConfigurator* ones more.



*SeaConfigurator is successfully installed. What is the next step?*

## 4. First Start of the Program

For the interconnection GSM RELAY 3 with the SeaConfigurator follow next instructions.

1. If you selected Start SeaConfigurator in the previous step, the program will start automatically. You can start program also by double click on the icon SeaConfigurator which is on the PC screen.



*The program is running, what is the next step?*

2. Connect GSM RELAY (station) with your PC via USB cable (accessories). You can connect the station also through GPRS, see the chapter 9. *Configuration server GPRS*.
3. Wait a minute. The driver ( not valid for reconnection) and GSM RELAY configuration are installed (or reloaded).
4. After successfull GSM RELAY data upload, screen *Configuration* opens. Here you can create a station configuration, see next chapters.



 ***How to close the program correctly?***

5. The program will be closed by click on **x** ( cross) in the upper right corner of the window SeaConfigurator.

 *Attention! If you created configuration, don't forget to **Save** it (see chapter 5.Configuration)!*

6. After Exit, the program disconnects the GSM RELAY from the computer.

 ***How to run the program again?***

For re-run the program and load the data from/into GSM RELAY, follow steps 1. – 4. of this chapter.

## 5. Configuration

This chapter describes all possibilities of station's configuration e.g. how to change a password, how to add users, how to set inputs and outputs, how to set alarm circuits etc.

Some functions are in the factory configuration. Any saved configuration can be changed.

On the website [www.seapraha.cz](http://www.seapraha.cz) in the category *GSM products* → *GSM applications for home* → *Examples and FAQ* you can find answers to frequently asked questions and examples for the most common used methods of GSM RELAY.

### 5.1 The Basics for Configuration

This part of the chapter *Configuration* describes the basics for the configuration of station through the SeaConfigurator, especially how to upload new configuration into the station, how to backup, how to upload configuration from a file and add, edit and delete actions during the process.

#### 5.1.1 Change Station configuration



##### *How to upload a new configuration to the station?*

If you want to make changes in your station configuration, you have two options. The first way is to make the desired configuration in your PC and then you connect the station to the computer. The second way is to make changes when the station is connected to the computer via USB cable or GPRS.

If you choose first option, you can upload changes by following way:

- ✓ Make the desired changes in the configuration by SeaConfigurator.
- ✓ Save the configuration using the button **Save**.
- ✓ Connect the station to your computer via USB cable or GPRS (*chapter 9. Configuration server GPRS*).
- ✓ When configuration in the station and the SeaConfigurator are different, following message is displayed: ***The station settings are different from the last time. What do you want to do?*** You have three options: ***Save the new configuration to the station, Ignore differences and decide later, Load settings from the station.***

- ✓ If you made the changes in the SeaConfigurator and you want to upload it into the station, select ***Save the new settings to the station***. An information window about successfully stored configuration into the station will appear.
- ✓ In other cases, choose one from the two remaining options. In the case of ***Ignore differences and decide later***, the configuration of station remains as it is, in the SeaConfigurator remains changed configuration (configurations are not synchronized) and you can decide later to upload it. In the case of ***Load settings from the station***, the original configurations which is stored in station will be uploaded into the SeaConfigurator (changes in the SeaConfigurator will not be saved).

If you choose the second option, you upload changes by following steps:

- ✓ Connect the station to your computer via USB cable and make configuration changes. After saving configuration changes using the button ***Save***, you upload the changes to the station by click on the button ***To Station*** in the *Configuration* tab.
- ✓ If you want to upload configuration from the station to the SeaConfigurator, click on the button ***From Station***.

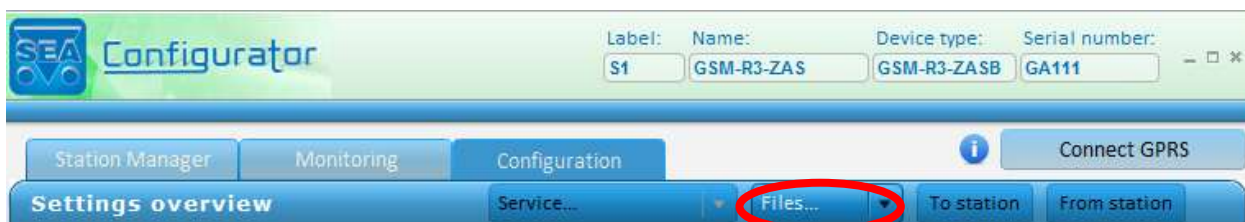


### 5.1.2 Data Backup, Load Configuration from a File



#### *How to make a backup of the configuration?*

If you want to load the configuration (backup) to the file, from which the configuration can be later uploaded, open the SeaConfigurator where is the configuration you want to backup (or create appropriate changes).



- ✓ On the *Configuration* tab, click on the top bar *Settings overview* on the button *Files...* click on *To file*. Now is displayed the window *Save configuration*.
- ✓ Choose the path where the file should be saved (recommended to leave it as it is).
- ✓ Into the box *File Name* fill the name of the selected file and click on the button *Save*.
- ✓ The window *Saving Configuration* will be closed. The file is saved into the chosen place and can be loaded later.



*It is recommended to backup your configuration for the possibility to return to the previous configuration. All configuration parameters can be uploaded to a file.*



*How to upload the configuration from a file?*

If you have a file, which contains the desired configuration (e.g. for reset an older configuration), you can upload whole configuration into the station in one step.

- ✓ Click on the button *Files...* in the *Configurations* tab.
- ✓ Click on *From file*.
- ✓ Use the wizard to select the file from which you can upload the configuration and click on the button *Open*. This will upload the configuration from a file into the SeaConfigurator.

### 5.1.3 Add a New Action, Edit and Delete Action

You can add, edit and delete the action for every individual inputs and outputs of the station. This is an action, which will be performed, if the specific state occurs.



*What is an action?*

An action can be a SMS message, a tone call or a SMS Command which will be performed, if the specific state occurs.

#### Add a New Action

Click on the button *Add* and you can add a new action. The *Adding Action* window will appear. You can choose *SMS Message* (sending a SMS message to selected users), *Tone Call* (defined a tone call to selected users) or *Command* (the station make a SMS command). Click on the desired action (see following points).

- ✓ If you want to send a SMS message after the specific state occurs, click on the *SMS Message*. Type your text into the textbox *Text of SMS message*, which you want to send

after the specific state occurs. In the **List of users** select which users have to obtain this SMS message. You can add a new user when you click on the button **New user** (after that follow the instructions in chapter 5.3.2). Click on **Save**.



The screenshot shows a software window titled "Adding action". At the top right, there are "Cancel" and "Save" buttons, with the "Save" button circled in red. Below the title bar, there are three tabs: "SMS message", "Tone call", and "Command". The "SMS message" tab is selected. The window contains a text box for "Text of SMS message:", a list of macros supported in version FW 1.0.16, and a table of users. The "List of users" table has columns "Choose", "User", and "Phone number". The "MASTER" user with phone number "+42077777496" is selected. A "New user" button is at the bottom.

Choose	User	Phone number
<input checked="" type="checkbox"/>	MASTER	+42077777496
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

- ✓ If you want a tone call to the telephone number, click on the button **Tone call**. Choose sounds to be played back and write them to the textbox **Tones played**. Allowed symbols are 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, \*, #, p. In the **List of users** check which users have to be called in this occasion. You can add new user when you click on the button **New user** (after that follow the instructions in chapter 5.3.2).
- ✓ If you tick off **Users must accept the call**, the station will call this user repeatedly as long as the user accept the call. Click on the **Save** button.
- ✓ If the station has to do SMS command automatically, click on button **Command**. Write any command to the textbox **SMS command** and after that click on **Save**. All commands are explained in the user manual you obtained with your GSM-RELAY.

### Editing action

In the list of actions, click on the action that should be edited and after that click on **Edit**. You will see the window **Editing action**. To edit the action, you can rewrite the text, a SMS message or a command in the action textbox. After the editing, click on **Save**.

## Deleting action

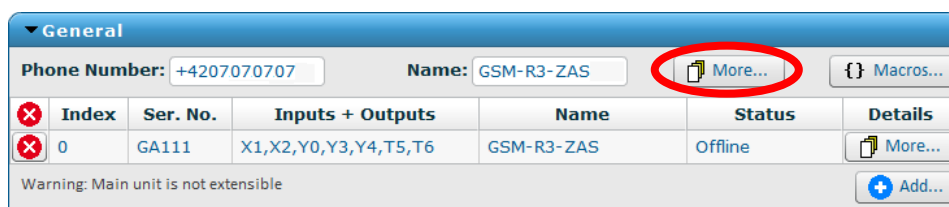
In the list of actions, click on the action that you want to delete. Click on the button **Delete**. You will be asked *Do you really want to delete the selected action?* If yes, click on **Yes**.

- ✓ If you tick off the check box **Disable action list**, you will block all the actions temporary. The advantage is, that it isn't necessary delete all actions, but you can use them later by uncheck the same checkbox.

## 5.2 General Configurations

On the *Configurations* tab go to the **General**.

To change the configuration click on the **More...** button.



The window **General configurations** will be displayed.

### View and change basic station parameters

In this part you can do settings of a phone number, a PIN code and SMS limits. Station's phone number will be loaded when you connect your station to your computer. It can be changed by rewriting the textbox **Station's phone number**.

- ✓ In the textbox **PIN Code of the SIM Card** you can set the PIN code for the SIM card, which is inserted into the station.
- ✓ The new PIN code will be used after re-inserting the SIM card (after ejecting and inserting from/to the station).
- ✓ **SMS Limit** is used for limit the number of sending messages by the station. Choose the limiting number of SMS messages which is allowed to send, including a time interval. If the number of SMS messages during a set time is exceeded, no more messages will be send.
- ✓ **Resend SMS** is used for resending SMS messages which are obtained the inserted SIM card phone number. By tick off the correct check box, you can select under what circumstances you want to resend the message.

## Prepaid SIM Cards Settings



*This configuration is valid only for prepaid cards!*

- ✓ Into the box **Code to read credit** fill the code for reading a credit (according the SIM card operator you use).
- ✓ **Automatic calls** you can enable automatic calls. It means that the station will call to the user in regular intervals, for example due to make a paid voice call from the SIM card inserted in your device. If you want enable this option, tick off the checkbox **Enable** and select the call interval.

## Event settings

- ✓ If a prepaid card is used, it can happen that you exhaust the credit. You can set an automatic warning for a low credit. Click on **Low Credit Warning** choice. In the bottom part of the window you can define an amount of credit that has to be considered as low. After that follow the instructions in the chapter 5.1.3 *Add a New Action*.
- ✓ If you use a prepaid SIM card and if you want to know when the credit on the SIM card inserted in your station will expired (validity of the credit can be 1 year), you can set the **Reminder to recharge SIM** action. You can e.g. obtain the SMS with attention that the credit will expire soon. Click on the selected item (**Reminder to recharge SIM**). Set the time in which you want be warn that the SIM card has to be recharged. After that follow the instructions in the chapter 5.1.3 *Add a New Action*.

- ✓ If you want to know that the GSM signal was lost, you can set the alert for example by light signalization. This can be done by choice **GSM signal lost**. After that follow the instructions in the chapter *Add new action SMS command*, see chapter 5.1.3.



*If the GSM signal is lost, the bulb connected on output Y4 and placed in a visible place for the operator will light up. I will add a new action - SMS command Y4 ON. If the device lost the GSM signal, the bulb connected to the output Y4 will light up.*

- ✓ If you want to know that the GSM signal was recovered, you can set the notification by choice **GSM signal recovered**. After that follow the instructions in the chapter *Add new action SMS command*, see chapter 5.1.3.

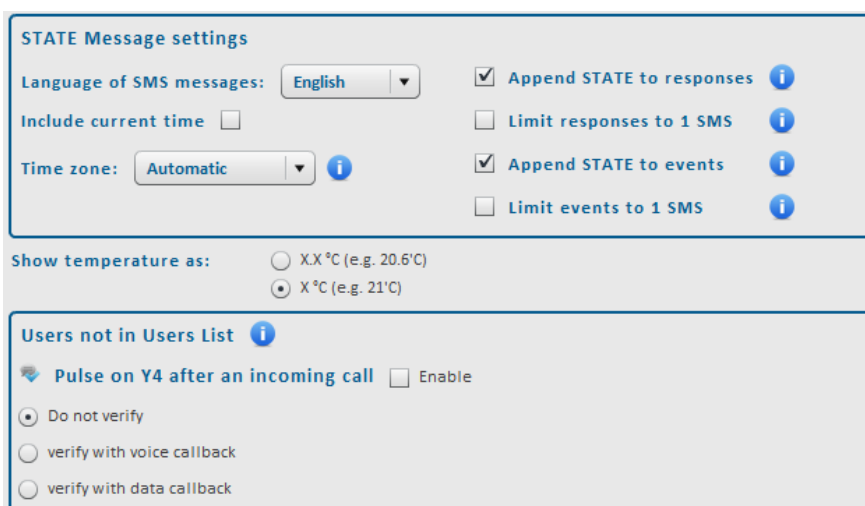


*After recovering the signal, I want the bulb turn off. I add a new action - SMS command Y4 OFF. After recovering the signal, the bulb will turn off.*

- ✓ The backup battery may get discharged. The GSM RELAY cannot stay in operation without a power supply. You can learn about the backup battery discharge by using a choice **Backup battery discharge**. This event starts when the battery drops below 20 %.
- ✓ **Periodic STATE message** is primary determined for users who use GSM RELAY only once a time. Thanks to the periodic STATE message, according the chosen time, you can know about the station functionality and inputs and outputs states (used mainly for a back control). In the Event Setting selection select the time between two consecutive SMS messages about the state of station (**Send STATE every** :).

#### STATE Message settings:

- ✓ In this part of general setting you can set basic parameters for the STATE SMS message. Select the language (English). If you want the current time in the state message, tick off the checkbox **Include current time**.
- ✓ **Time zone** is recommended to keep **automatic**. You can also choose it from a check list.



- ✓ If you tick off the checkbox **Append STATE to responses**, the STATE SMS Message will be sent after each SMS command.
- ✓ Due to the variability of setting, the STATE message can be longer than one SMS. If it is sufficient for you, tick off the checkbox **Limit responses to 1 SMS** and the length of status messages will be reduced to only one SMS message.



*For this function you need station FW version 1.0.16 and higher!*

- ✓ If you tick off the checkbox **Append STATE to events**, the messages about events would automatically contain the answer to STATE.



*For this function you need station FW version 1.0.15 and higher!*

### Show temperature as

- ✓ Thick off the appropriate checkbox in the **Show temperature as** to choose how you want to display the temperature - if rounded to whole grade or tenth grade.

### Users out of Users List



*This setting define what must the station do in case of incoming call from users who's are not on the list and how to respond them.*

Users with the hidden number (activated service CLIR, Skype calls, etc.) are always ignored.

- ✓ For other users, who are not saved in the list, can be enabled **Pulse on Y4 after an incoming call** by tick off the **Enable** option. This function make a pulse in the set length after incoming

call to the phone number of station SIM card. Just as for other users, you can select the appropriate option *Do not verify*, *Verify with voice callback* or *Verify with data callback*.



*The pulse needn't be only on Y4 output, it depends on the settings in the user card, which output you choose to respond to the incoming call.*

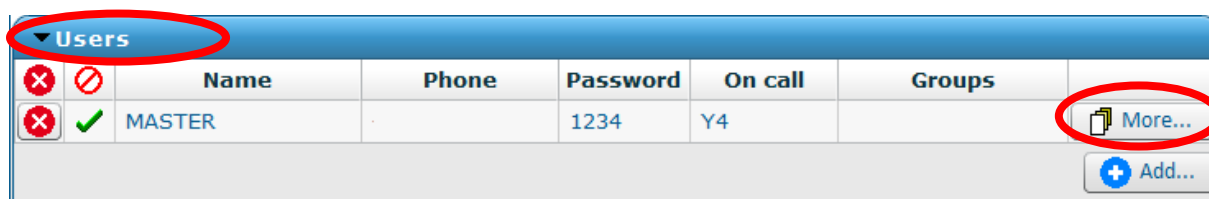
## 5.3 Users Setting

This chapter deals with an individual adjustment options for the user, such as a password change, add and edit user settings for individual users and create user groups.

### 5.3.1 Change the Password

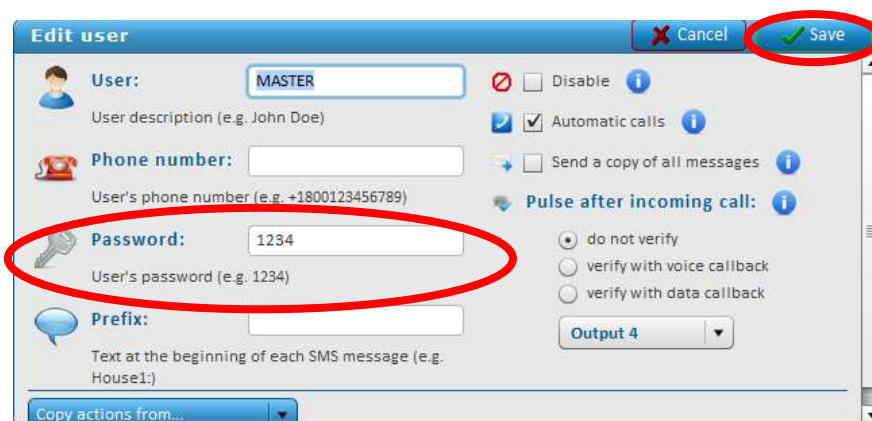
The password can be changed by SMS or by SeaConfigurator. This chapter is focused on changing the password using SeaConfigurator.

On the *Configuration* tab, go to category *Users*.



To change the user password click on *More...* in line of the user.

The window *Edit user* is displayed. In the textbox *Password* rewrite the password to a new one. Then click on the *Save* button in the upper right corner.



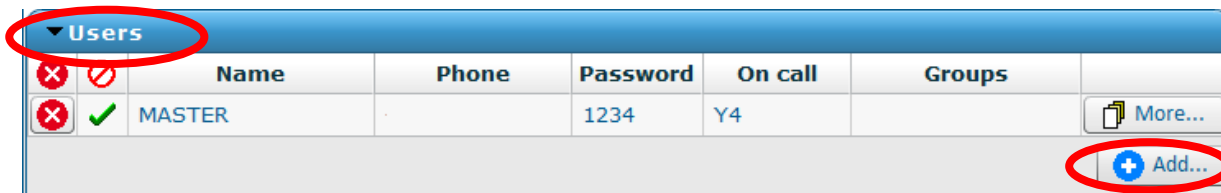
All settings for the user are explained in the next chapter.



*For safety reasons is recommended to change the password from the original 1234.*

### 5.3.2 Add a new user

- ✓ In the *Configuration* tab, go to category *Users*.



- ✓ Click on the button *Add...*
- ✓ A form *Add new user* is displayed. Fill the textbox *User* (name), *Phone number* in an international format e.g. +420123456789, into the textbox *Password* fill the password which the user will used for controlling the station. In the textbox *Prefix* you can specify what text will be written at the beginning of each SMS message sent by the station.

**Add new user** [Cancel] [Save]

User: [text box]  
User description (e.g. John Doe)

Phone number: [text box]  
User's phone number (e.g. +1800123456789)

Password: [text box]  
User's password (e.g. 1234)

Prefix: [text box]  
Text at the beginning of each SMS message (e.g. House1:)

☐ Disable  
☐ Automatic calls  
☐ Send a copy of all messages

Pulse after incoming call:  
☒ do not verify  
☐ verify with voice callback  
☐ verify with data callback

Output 4

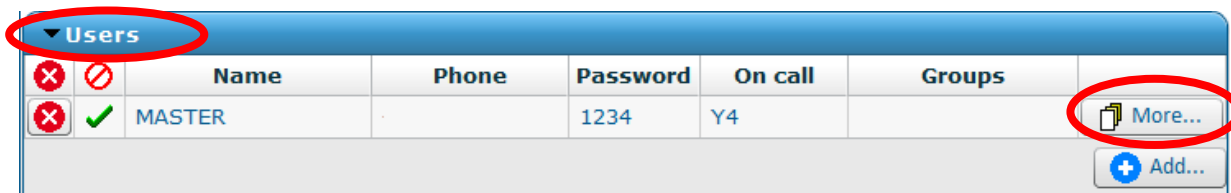
Copy actions from...

- ✓ When you fill out all the information, click on the *Save* button in the upper right corner. Individual labels and settings can be edited again later.

### Event setting for users

In the *Configuration* tab, go to the category *Users*.

To change any events of users click on *More...* at the particular user.



The tab *Edit user* is displayed. On this tab you can change all user data, including password.



What does it mean each settings options in the right side of window?

- ✓ If you tick off the checkbox **Disable**, the user telephone number will be prohibited for all events. It is useful when you need temporarily disabled sending events to this user (e.g. when the user is on holidays).
- ✓ If you tick off the checkbox **Automatic calls**, the user will be called in regular intervals (e.g. due to make a voice call from SIM card). The interval can be set in the menu *General - Automatic calls*.
- ✓ If you tick off the checkbox **Send a copy of all messages**, copies of all SMS responses from the station will be sent to this user.
- ✓ In the selection **Pulse after incoming call** you can define whether and how to verify back the pulse execution as a reaction to the incoming call. There are three options what to do after incoming call: **do not verify**, **verify with voice callback**, **verify with data callback**. Tick off the wanted option. The reaction on the incoming call can be done only for one selected output. The output you can select in the listbox.



!!!For saving the setting, click on the **Save** button in the upper right corner. Individual settings can be edited later, see the beginning of this chapter!!!

### 5.3.3 Creation the User Group



This setting is only for a Czech version of stations called “Svolávač”.

In the **Configuration** tab go to the **User Groups**. For creating a new user group, click on **Add...**



A card **Add user group** is displayed. Into the textbox **Name** fill the name of the group. From the **List of users** using the checkboxes select the members of the group. You can also add a new user through the button **New User** (after that follow the chapter 5.3.2 **Add New User**).

**Add User Group** [Cancel] [Save]

**Name**

Name of the group, e.g. WORKERS

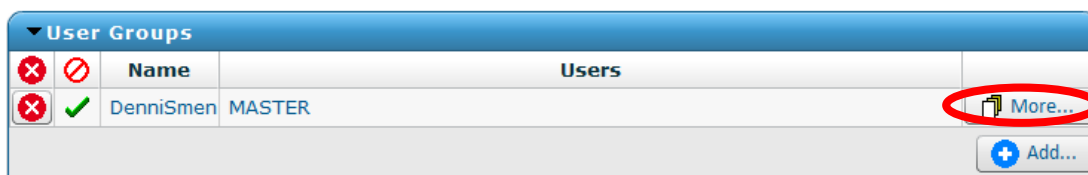
List of users:

Member	Name	Phone
<input type="checkbox"/>	MASTER	+420777777496
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

[+ New User]



!!!For saving the settings, click on the **Save** button in the upper right corner. Individual settings can be edited later by click on the button **More...**!!!



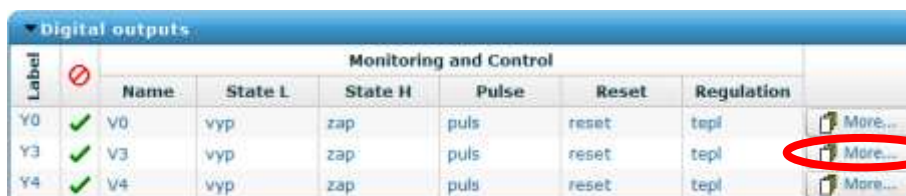
User groups can be used for example in multi-shift operations or different competencies for different servicing.

## 5.4 Input and Output Setting

This chapter contains a detailed description of the inputs and outputs setting of the station through the program SeaConfigurator.

### 5.4.1 Digital Outputs

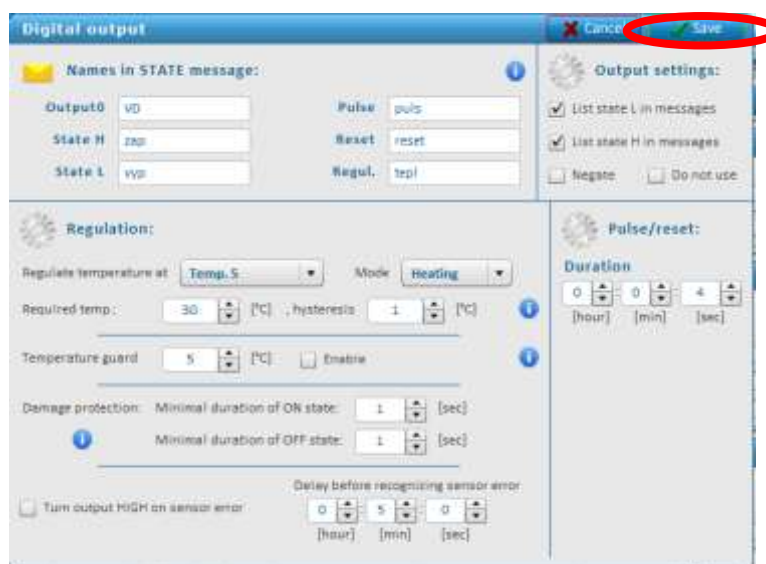
Individual digital outputs can be set in the *Configuration* tab of *Digital Outputs*.



Label	Name	State L	State H	Pulse	Reset	Regulation	
Y0	V0	vyp	zap	puls	reset	tepl	More...
Y3	V3	vyp	zap	puls	reset	tepl	More...
Y4	V4	vyp	zap	puls	reset	tepl	More...

Select the output which you want to set in the appropriate row and click on the *More ...*

The window for setting the *Digital output* is displayed.



**Digital output**

Names in STATE message:

Output0: V0, State H: zap, State L: vyp, Pulse: puls, Reset: reset, Regul: tepl

Output settings:

☒ List state L in messages, ☒ List state H in messages, ☐ Negate, ☐ Do not use

Regulation:

Regulate temperature at: Temp. S, Mode: Heating, Required temp: 30 [°C], hysteresis: 1 [°C], Temperature guard: 5 [°C], Enable: ☐

Damage protection: Minimal duration of ON state: 1 [sec], Minimal duration of OFF state: 1 [sec]

Delay before recognising sensor error: 0 [hour] 5 [min] 0 [sec]

☐ Turn output HIGH on sensor error

Pulse/reset:

Duration: 0 [hour] 0 [min] 4 [sec]

#### Names in the STATE message

In this part you can choose names of states, which will be displayed in the state message of the station. You can change them by rewriting the text in textbox.



*State L = state when the contact is opened = regulation / connected device is turned off.*

*State H = state when the contact is connected = regulation / connected device is turned on.*

*Hysteresis = allowed variance of temperatures at which station will not answer.*

*Safety time = minimum duration of the ON / OFF during the regulation.*

## Output settings

- ✓ Use the check boxes to select whether you want the SMS information about the selected output. If yes, tick off the **List state L in messages/ List state H in messages**, or both.
- ✓ If you tick off **Negate**, you will do a negation of the states. The state H (ON) - contact is disconnected, state L (OFF) – contact is connected.
- ✓ If you tick off the checkbox **Do not use**, this output will be prohibited to use. Then this output does not respond to SMS commands (ON / OFF), or button.

## Regulation

If you use the output for regulation, you can set the parameters of regulation in this section.

- ✓ In selection **Regulate temperature at** choose by selecting from the list, according which temperature input will be the regulation implemented.
- ✓ In the selection **Mode**, select from the list the mode: heating/cooling.
- ✓ In the selection **Required temp.** select what temperature is required for heating/cooling.
- ✓ In the selection **Hysteresis** select tolerates for temperature fluctuation.
- ✓ In the selection **Temperature guard** select the desired temperature (the temperature below which may not fall, and if so, it starts heating). The regulation to the temperature guard you switch by tick off the check box **Enable**.



*I am in the heating mode and I set up the temperature guard to 5 ° C and a hysteresis of 1 ° C. If the temperature falls below 5 ° C, the heating will be swith on and will run as long as the temperature does not rise to 6 ° C. Then the heating will turn off and starts again when the temperature drops below 5 ° C.*

## Damage protection

- ✓ In the selection **Damage protection** you can set the minimum duration of ON state and OFF state for the output during the control. This will avoid the constant switching on and off state. This setting does not affect ON and OFF commands via SMS, button control, nor switching by alarmed functions.

## Turn output HIGH on sensor error

- ✓ If you tick off the checkbox **Turn output HIGH on sensor error**, you ensure that if a sensor is faulty, it means a sensor will not transmit station status information (e.g. the measured temperature), the output will be closed (e.g. turn on an alarm signalization). Set also the delay

before recognizing sensor error. It means how long after the sensor does not specify a value, is recognized as a faulty sensor.

### Pulse/Reset



*Set only if the output is used for the pulse (e.g. for opening doors) or reset. If you don't use it, you can leave factory settings.*



✓ In the selection **Duration** select the desired duration of the pulse / reset, it means the delay between opening/closing (off/on) contact output.



*I use this output for opening the gate. I set the length of the pulse duration to 4 seconds. After calling the station phone number, it makes 4 sec. pulse, which can command the doors control mechanism and the gate starts to open.*



*!!! To save the settings, click on **Save** in the upper right corner. Individual settings can be changed later by click on the **More...** button for the concrete output!!!*

## 5.4.2 Digital Inputs

Individual digital inputs can be set in the *Configuration* tab of *Digital Inputs*.

▼ Digital Inputs							
Label		Monitoring and Control			Input activated	Input deactivated	Users
		Name	State L	State H	SMS Message	SMS Message	
X1	✓	V1	vyp	zap	ALARM!!!		MASTER
X2	✓	V2	vyp	zap			More...
I0	✓	Napajeni	odpojen	napajen			More...

Select which input you want to set and click on *More...* in the appropriate row.

You will see the window for setting the *Digital input*.

Digital input

Cancel
 Save

Names in STATE message:
 

Input 1:

State H:

State L:

Input settings:
 

☒ List state L in messages
 ☒ List state H in messages

☐ Negate
 ☐ Do not use

☐ Do not send changes during power outage

Change reports

Transition L => H
 

Delay - time to recognize a change
 

:  : 

[hour] [min] [sec]

Add
 Edit
 Delete

'ALARM!!!' to 'MASTER'
 'OD' to 'MASTER'

☐ Disable action list

Transition H => L
 

Delay - time to recognize a change
 

:  : 

[hour] [min] [sec]

Add
 Edit
 Delete

'123' to 'MASTER'

☐ Disable action list

### Names in STATE message

In this part you can choose the names of states, which will be displayed in the STATE message of the station. You can change them by rewriting the text in the textbox.

*State L = the device is off - the contact is open.*

*State H = the device is on - the contact is connected.*

### Input settings

- ✓ By tick off the checkbox, you will choose if you want information about selected input in the STATE message. If yes, tick off the checkbox *List state L in messages* / *List state H in messages*, or both.

24

SEA spol. s r.o., Dolnoměcholupská 21, 102 00 Praha 10, tel.: +420 272 700 058, fax: +420 272 701 418, obchod@seapraha.cz www.seapraha.cz

- ✓ If you tick off **Negate**, you will do a negation of the states. The state H (ON) - contact is disconnected, state L (OFF) – contact is connected.
- ✓ If you tick off the checkbox **Do not use**, this output will be prohibited to use. Then this output does not respond to SMS commands (ON / OFF), or button.

### Change reports

- ✓ In the selection **Delay - time to recognize a change** set the time interval in which the change will be ignored. After exceeding this time the changes will be recognized. You can set any time interval for the **Transition from state L to H** and for the **Transition from state H to L**.
- ✓ For the transition from L to H, as well as the transition from H to L, you can set how the events will be announced, who should obtain information about this event and how the user or station has to respond. The required settings can be done through the **Add**, **Edit** and **Delete**.
- ✓ Click to **Add** to add new action. Follow the instructions **Add new action**, see Chapter 5.1.3.

A special type of digital input is a **power supply**. Because GSM RELE 3 has a built-in backup battery, it is possible to learn about the power outage and the station will stay in operation for a time of backup battery lifespan. All settings can be done the same way as any other digital input. They differ only by checkbox **Do not send changes during the power outage**. If this checkbox is tick off and a power outage occurs, the input does not generate any events.





*!!!For save the settings, click on the Save button in the upper right corner. Individual settings can be changed later by click on More... button for the concrete input!!!*

### 5.4.3 Temperature Inputs

Individual temperature inputs can be set in the *Configuration* tab of the *Temperature Inputs*.

Select which input you want to set and click on *More...* in the appropriate row.

▼ Temperature inputs							
Label		Name	Cooled		Heated		Users
			Below	SMS Message	Above	SMS Message	
T5	✓	T5	5 °C	Teplota klesla pod 5 °C	30 °C	Teplota vzrostla nad 30 stupnu	MASTER  More...
T6	✓	T6	5 °C	T6 - Mrzne!	20 °C		MASTER  More...

The window *Temperature input* configuration is displayed.



#### Names in STATE message

In this part you can change the names of individual data, which will be displayed in the sent STATE message. To change this, overwrite the original text in textboxes. Change will be made after click on the *Save* button.

**Shorted** – temperature input is shorted.

**Disconnected** – no temperature sensor is connected.

## Input settings

If you tick off the checkbox **List state in messages**, the current state of the temperature input will be written in the STATE message.

If you tick off the checkbox **Do not use**, input will not generate any events and will not be presented in the STATE message.

## Adjustment

It may happen that the sensor measures a different temperature value than it is in reality (not calibrated correctly or has a long wire). For the setting use the **Adjustment**. Here you can set the value which will be added to the reported value to match reality.



*Sensor indicates a temperature of 23 °C, the etalon in the same place indicates the temperature of 22 °C. Set -1 °C (23-1 = 22) in the calibration. Then the sensor will also indicate 22°C.*

## Change reports

In this part you can set the required reports of the temperature changes. The change can be reported during the transitions from the set zones.

Click on the **Add** button (for setting the desired transition zone) and you can add a new action. Follow the instructions *Add new action*, see the Chapter 5.1.3.

For each zone transition you can set the delay. It means the time to recognize the change. Setting you can do in their listboxes **Delay** for each transition zone.



*If the temperature exceeds 30 °C, I would like to receive SMS with the text "The temperature rose above 30 degrees." If the temperature drops below 5 °C, I wish output Y3 will be switched on and I will receive SMS "The temperature dropped below 5 degrees".*

*To the textbox for the transition from the green to the red zone in **Change reports** I write temperature of 30 °C. After that I click on the **Add** button, then choose the **SMS message**, to **Text of SMS message** I write: „The temperature rose above 30 degrees“. In the **List of users**, I select the users to whom I wish send the message and click on **Save**.*

*To The textbox for the transition from the green to the blue zone in **Change reports** I write the temperature of 5 °C. After that I click on the **Add** button, then choose the **SMS message**, to **Text of SMS message** I write: “The temperature dropped below 5 degrees“. In the **List of users**, I select the users to whom I wish send the message and click on **Save**.*

*See the settings on following picture. To save the settings click on **Save** in the upper right corner.*

28



!!!For save the settings, click on **Save** button in the upper right corner. Individual settings can be changed later by click on the **More...** button for concrete temperature input!!!

#### 5.4.4 Alarm Circuits



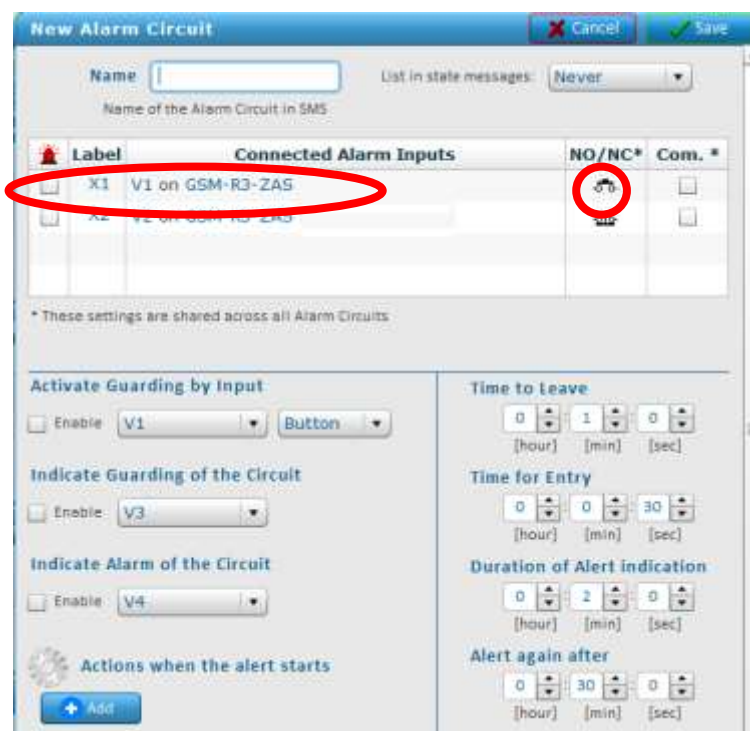
*What are alarm circuits? What are alarm circuits for?*

The station can be used for creation of alarm circuits. Alarm circuits are circuits, which can be connected by magnetic contacts (doors, windows), motion sensors, etc. used to secure your building.

In the **Configuration** tab go to the **Alarm circuits**. For a new alarm circuit click on **Add...** button.





The window **New alarm circuit** is displayed. To the textbox **Name** fill the name of the alarm circuit.



*Guarding = alarm is turned on.*

- ✓ In the listbox **List in state messages**, you can select when you can add the state of alarm circuit in the state message.

- ✓ Use the checkboxes to select the input to which is connected the alarm circuit.
- ✓ **NO / NC** according to graphics choose when alarm starts. If you want to start the alarm when input is activated, select . If you want to start the alarm starts when input is deactivated, select .
- ✓ **Com.** = common/shared area. Alarm is activated only if are guarded all the circuits that contain a specific input.
- ✓ **Activate Guarding by Input** = activation of guarding by pressing the button or by switching position to on/off. Tick off the checkbox **Enable** and select the input, on which is connected button/switch. Select whether it is a button or a switch.
- ✓ **Indicate Guarding of the Circuit** – guarding (alarm turn on) can be indicated using one output. Tick off the checkbox **Enable** and select the output to indicate guarding.
- ✓ **Indicate Alarm of the Circuit** - If you select **Enable**, choose the appropriate output, which is connected to the alarm indication (e.g. siren). When the alarm starts, the alarm indication is turned on.
- ✓ **Actions when the alert starts** – here you can set the action, which be executed in case of an alarm indication. For adding a new action click on the **Add** button. Follow the instructions *Add new action*, see Chapter 5.1.3.
- ✓ On the right part of a window you can set the time periods, during which the station will ignore the change on inputs (**Time for Entry**, **Time for Leave**). It is the time during which the change on inputs does not starts the alert (will not call anywhere, send messages, start alert).

**Duration of Alert Indication** - through this selection you can set for how long the alert indication will be activated.

**Alert again after** – you can set the time between two consecutive action, that are caused by alarm activation (e.g. the time between two consecutive SMS in the event of an alarm, the time between two consecutive alert indications).



!!! For save the selected settings, click on **Save** button in the upper right corner. Individual settings can be changed later by clicking on the **More...** button for the concrete alarm circuit!!

## 6. Monitoring

On the **Monitoring tab**, you can monitor the states of inputs and outputs or change them. There are also included all information about the station and the SIM card and battery charge status and battery capacity.



*How do I know what version of firmware I have?*

Click the button **More...** button to find the firmware version number of your station.



*I want to find out what version of station FW I have. I connect the station via USB cable. Click on the **Monitoring tab**, then in this tab click on the **More ...** Current version of station FW is 1.0.16.*

Monitoring can be done only if the station is connected via USB cable or GPRS.

Run the program SeaConfigurator. Connect the station via USB cable to the computer or via GPRS, see Chapter 9.

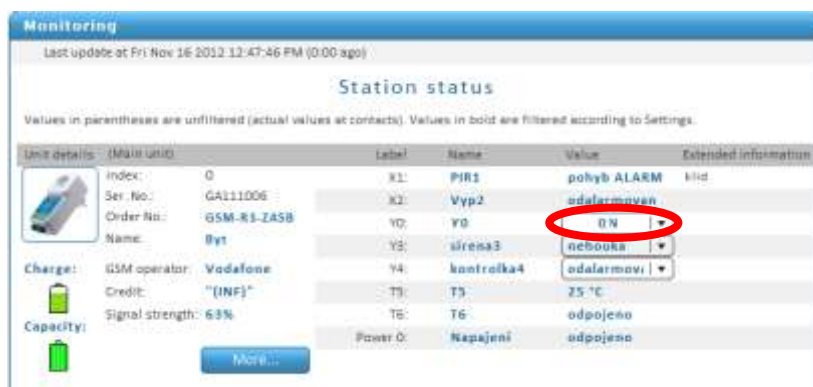


*On the **Monitoring tab** you can test the function of your station and follow changes on inputs and outputs. The change in the Monitoring tab is identical to using SMS command.*

Click on the **Monitoring tab**.



The values, that are in parentheses, are actual values at the connectors (e.g. (26 ° C)). The values, that are displayed in bold, are values filtered by setting (e.g. Off, On).



The current state of the inputs and outputs of the station are displayed. You can change states for the concrete input / output by selecting from the listbox menu.



*I want to switch on the output Y0. I am connected via GPRS. Click on the **Monitoring** tab. Click in the listbox and choose **Output Y0** option **ON**. This action will cause switching ON output Y0 (the same can be done by sending SMS: <password> Y0 ON).*

## 7. Station selection

On the **Station** tab, there is a part to login to the server **GPRS** and **Station Manager**.



### 7.1 Station manager

Here you can see a list of all stations that have been installed. In the **Station Manager** tab are displayed basic information about the stations, including the most recent monitoring data and settings.

To edit the settings of a station, click on the **Change** button. Follow the Chapter 5. (*Configuration*).

To delete all the data of station in the computer and also on the server SEA click on the red cross



of the selected station.

If there is text **USB** next to the *Edit* button, it means that the station is currently connected to the computer via USB.

## 7.2 Add the station

- Connect the station via USB cable to the computer. Wait for a while. The station is automatically added to the list in Device Manager and automatically loads the settings that are stored in it.

If you don't connect the station via USB, it is possible to add it manually:

- In Station tab on Device manager, click on the **Add** button.

It is displayed the menu with all the types of stations. Select your type of station; enter its serial number (SN :) into the textbox.

Then click on the **Select** button. At this moment you add a new station.

- If you have backed up the configuration in a file, you can download it from the file. In **Device Manager**, click on **Add**.



At the bottom of the window, click on the **Load from File**. Select a file with a saved configuration and then click on the **Open** button. Wait for a while. This will load the configuration from a file.

## 8. Upload new firmware

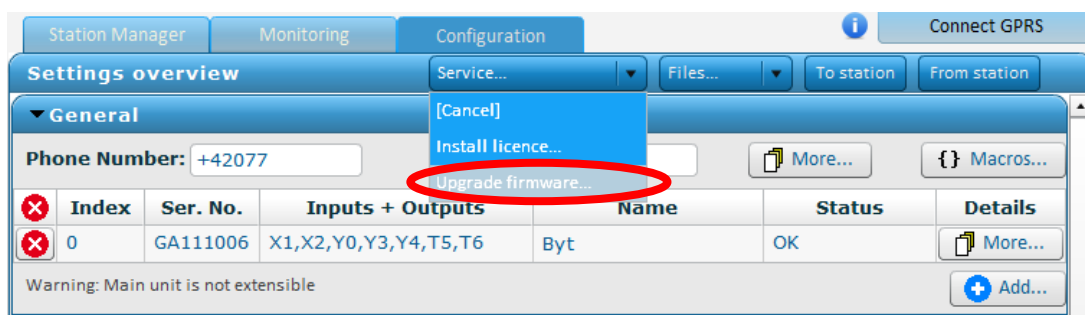
If a new version of FW station is available, from FW version 1.0.14 it is possible to upgrade it via SeaConfigurator. For upload a new firmware you need to have your computer connected to internet.



### *How can I upload FW?*

We recommend you to backup the station configuration before upgrade FW, see Chapter 5.1.2. Connect the station via a USB cable or via GPRS.

On the *Settings* tab, click on the **Service...** button. Then click on the **Upgrade firmware...**



Select the latest (or other desired) FW version, choose it and click on **Open**. It will upload FW of station. Wait for a while. Settings will be uploaded into the station.

## 9. Configuration server GPRS

You can connect the station GSM RELE 3 with SeaConfigurator by GPRS. This chapter contains instructions how to connect and how to do configuration via GPRS.



*Connection via GPRS is possible for FW station 1.0.12 and higher!!!*

### 9.1 First Login

1. On the *Station* tab fill your e-mail address into the textbox **User Name** (e.g. surname@gmail.com). Into the textbox **Password**, enter your chosen password. Remember this password! Later can be determined only after a call to a SEA Ltd.

Login to Configuration Server GPRS

User Name:  Password:  Login

Use your e-mail address Password to the Configurator Service

Warning: If you enter an invalid email, you won't be able to recover lost password

How to connect via GPRS

2. Click on the **New User** button. This will login to the configuration server GPRS.

You receive a login confirmation with text:

*Logged in*

*User <e-mail> has been logged in.*

Now you are logged into the configuration server GPRS. Now you need to connect to your station via GPRS.



*You are logged if your e-mail address is listed in the header of the Login to Configuration server GPRS.*

Login to Configuration Server GPRS

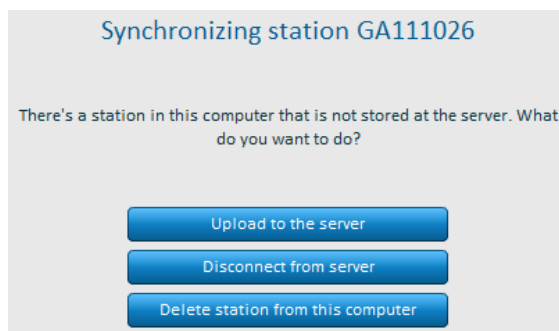
User Name: user@gmail.com Password: 1234 Login

Use your e-mail address Password to the Configurator Service

How to connect via GPRS

If you already have settings saved in your computer (for example, before you performed the settings via USB), you are asked *There's a station in this computer that is not stored at the*

*server. What do you want to do?* Click on the **Upload to the server**. This will upload the station settings to the configuration server GPRS.



If you have not yet added the station, click on the **Add** button on the **Station Manager** tab. Then follow the instructions, see chapter 7.2.



*Make sure that you filled the **station's phone number**! Without it, it is not possible to connect the station via GPRS! The phone number you can add by writing into the textbox for concrete station. Fill the phone number in an international format e.g. +420 123 456 789.*

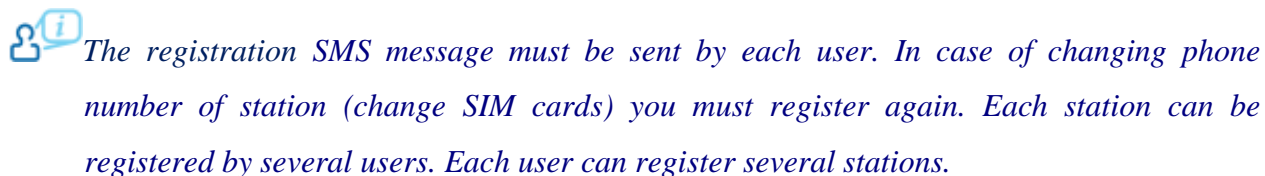
3. Now if you added the station in your computer, move your mouse on the icon of the lock (it means the station is locked for this user, for unlock it is necessary to register first). Now the information window with a text of registration SMS message is displayed.













4. From your phone number, send an SMS message to the phone number of station in the form <password> REGISTER <code>. The code is in the information window.

You will receive an SMS message on your mobile phone. *Request received. If you are logged in to the Configuration Server GPRS, log out and wait 1 minute before logging back in.*

5. Click on the **Logout** button. After about 1 minute, click on the **Login** button. The login confirmation is displayed again. If the registration is OK, the lock icon at the station disappears.



- | Station Manager   |       |        |          |              |             |              |  |   |
|---|-------|--------|----------|--------------|-------------|--------------|--|---|
|  | Label | Name   | Ser. No. | Phone number | Monitoring  | Settings     |  |  |
|   |       |        |          |              | Last        | Last         | Change   |   |
|  | S1    | GSM-R3 | GA111026 | +420         | Aug 28 2012 | Sep 12 20... |   Change |  |
|  | S2    | Byt    | GA111006 | +420         | Nov 16 2012 | Nov 22 20... |   Change |   |
|   |       |        |          |              |             |              |  |   |
|   |       |        |          |              |             |              |  |   |
|   |       |        |          |              |             |              |  |   |
|   |       |        |          |              |             |              |  |   |
|   |       |        |          |              |             |              |  |   |
-  Add...

- 

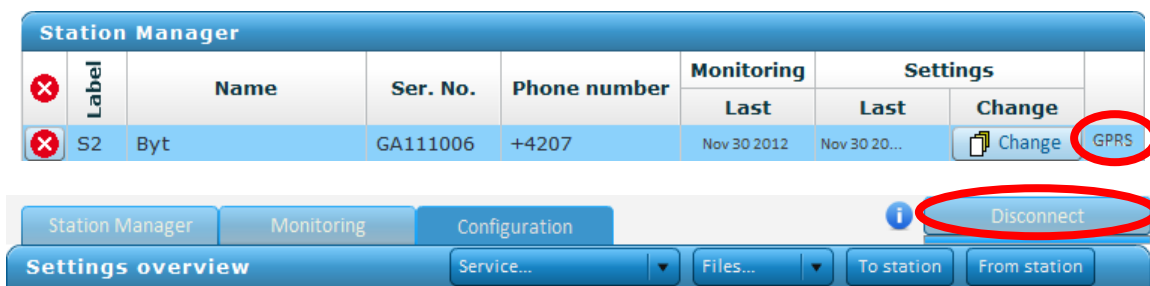
- 

- 

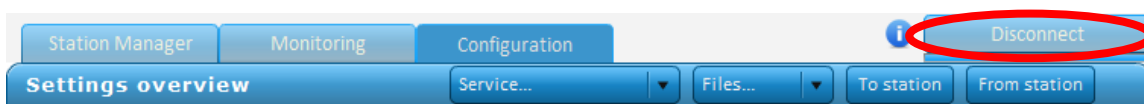
10. Now you are connected via GPRS configuration server.



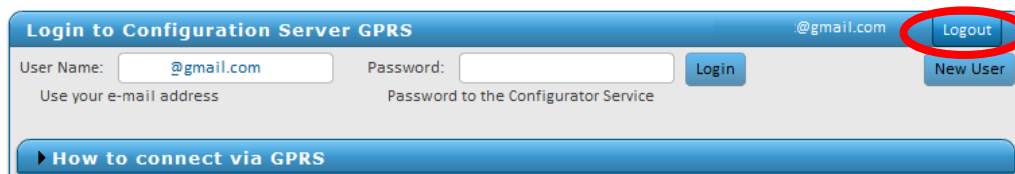
If you are connected, you can check on the *Station* tab, where in the last column at the station will be text **GPRS**. Where was originally *GPRS Connect* button will now appear the *GPRS Disconnect* button.



11. If you are connected, you can make changes in *Configuration* and *Monitoring* station via GPRS configuration server.
12. To be disconnected, click on the **Disconnect** button which is located in the upper right corner of the *Configuration* tab and *Monitoring*.



13. For logout, click on the **Logout** on tab *Station*. You will be completely logout from the server.



## 9.2 Repeated Login and Connection to GPRS Server

1. On the Tab *Station Manager*, fill **Username** and **Password** to textbox *Login to Configuration server GPRS* that you entered when you first logged into the server, see Chapter 9.1.
2. Click on the **Login** button. You will receive a login confirmation with text:

*Logged in*

*User<e-mail>has been logged in*

3. Click on the **Change** button for the selected station, the *Settings* tab will be displayed.
4. Click on the **Connect GPRS** button, which is located at the top of the window. Now you can do Configuration and Monitoring the station via GPRS configuration server.

5. To disconnect, click on the ***Disconnect*** button, which is located in the upper right corner of the *Configuration* and *Monitoring* tab.
6. For log out, click on the ***Logout*** on the tab Station. You will be completely logout from the server.

### **9.3 Configuration and Monitoring via GPRS Server**

All setting changes you can do not only via USB cable, but also via the configuration server GPRS. To connect via GPRS, follow instruction in Chapter 9.1. Loading of any setting changes is similar to connection via USB cable, see Chapter 5.

The station Monitoring, the changes of states of individual inputs and outputs are similar as you are connected via USB cable, see Chapter 6. and 7.

## 10. Upload SeaConfigurator

Program SeaConfigurator is still improved. After updates you will obtain new versions of Firmware.



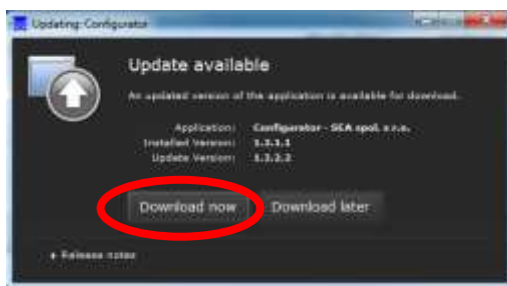
### *How to make an update?*

You must be connected to internet for checking updates.

Click on Check for updates in the left corner.

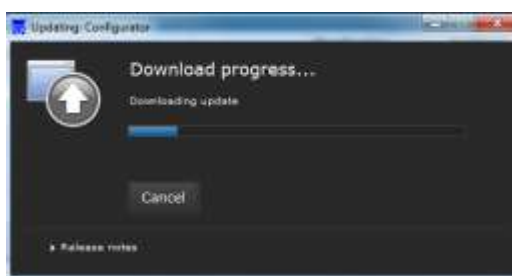


If any update is available, the window *Update available* is displayed.



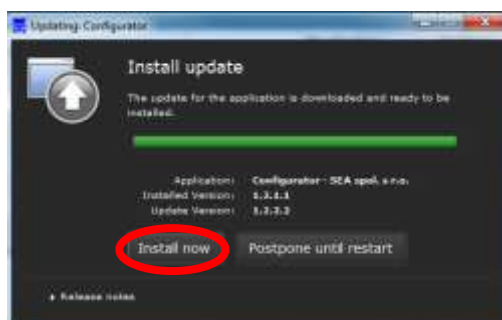
Click on button *Download now*.

Download of a new version of SeaConfigurator will start.



*The number of your actual version of program is in the left side beside Check for updates.*

After downloading the update will be installed.



Click on the button **Install now**. Update installation will start.

After update installation, a new version of SeaConfigurator will start automatically.