APPLICATION NOTE:

AUDIO ALARMS WITH SEAL

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APPLICATION NOTE

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1. PRELIMINARY INFORMATION ON SEAL 5

2. PURPOSE OF THE GUIDE 5

3. SENDING VOICE ALARMS WITH SEAL 5

3.1. Setting the language of the audio files 6

3.2. Modifying the audio files 7

3.3. Setting the Simple Event Control to send audio messages 10

3.4. Confirming reception of the audio message 10

ATTENTION!

Contact your telephone provider for information on GSM and GPRS service costs. It is best to quantify log and SMS costs before setting up and installing Z-GPRS3, Z-UMTS, Z-LOGGER3.

The use of Z-GPRS3 and Z-UMTS in data roaming mode (for example, abroad with an Italian SIM card) may generate unexpected costs. Contact your telephone provider for further information.

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ATTENTION!

-Contact your telephone service provider for GSM and GPRS service costs especially when using Z-GPRS3 or Z-UMTS with a sim card issued by a country other than the one in which it is used (international roaming).

-It is best to estimate telephone costs before setting up Z-GPRS3 and Z-UMTS.

-The cost of each SMS is set by the telephone service provider.

-GPRS send/receive costs can be tied to Kbytes sent/received, a monthly ceiling included in a package or GPRS connection time. Contact your telephone service provider for further information.

-Check the data quantity sent via GPRS and SMS before using Z-GPRS3 and Z-UMTS.

Please remember that mobile phone service providers consider the entire communication that permits file transmission as data traffic (and therefore data transmission overhead, the number of connection attempts, etc. must also be included in the count) and not just the dimensions of each 2G/3G transaction.

1. PRELIMINARY INFORMATION ON SEAL

Further information about SEAL can be found in the SEAL Quick Guide and the SEAL online help; further information on Z-GPRS3, Z-UMTS and Z-LOGGER3 can be found in the user manual.

It is not clearly possible to use Z-LOGGER3 to send audio alarms since it has no GSM modem.

2. PURPOSE OF THE GUIDE

The purpose of this guide is to show how voice alarms can be sent using SEAL.

In case of an alarm on digital input 1, the RTU sends an audio call towards the numbers in the address book.

To confirm the alarm has been received, the user must use the "*" key on the phone.

Pressing the "#" key on the phone, the alarm message is repeated.

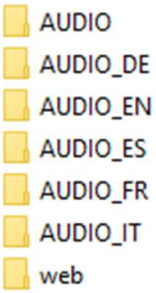
If reception of the alarm is not confirmed with the "*" key, the RTU will continue to call the following contact until the first reception confirmation is received.

RTUs are supplied with pre-recorded audio messages in the main European languages; however, it is possible to record audio messages with a microphone (any laptop has one normally).

3. SENDING VOICE ALARMS WITH SEAL

With Z-GPRS3 and Z-UMTS you can send not only text alarms via SMS, EMAIL or http, but also voice ones.

The audio files are saved on the SD card supplied with the product, in the AUDIO folders (you can also download the content of the SD card from the Z-GPRS3 and Z-UMTS section of the Seneca website).

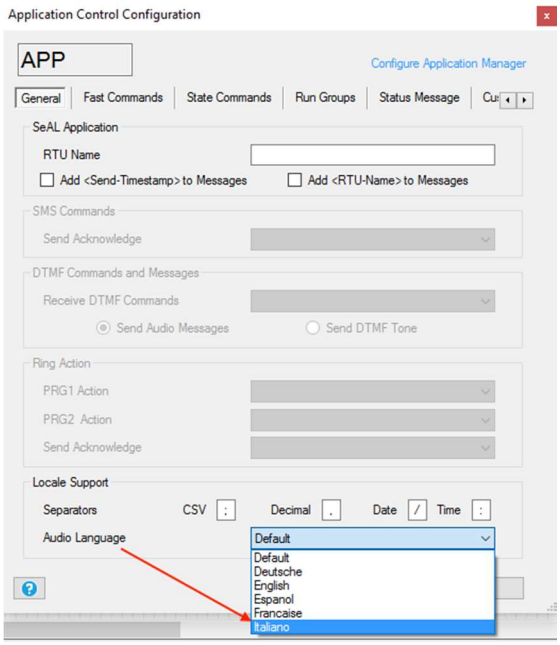


The AUDIO folders contain generic audio files in Italian, English, German, Spanish and French.

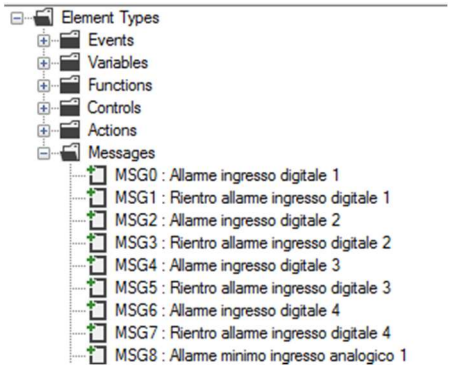
These audio files can be modified directly by the end user with SEAL.

3.1. Setting the language of the audio files

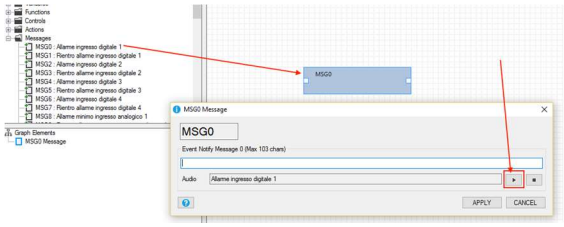
First of all, it is necessary to set the language you wish to use in the audio files; in SEAL, select the APP icon and then Italian as a language:



From now on all messages will be displayed in Italian:



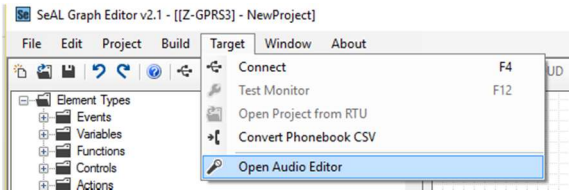
Dragging a message, this can be played in the selected language:



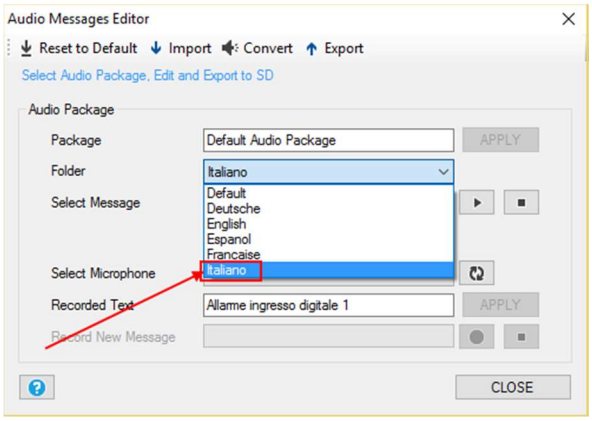
3.2. Modifying the audio files

The default audio files can be modified using the microphone of your PC.

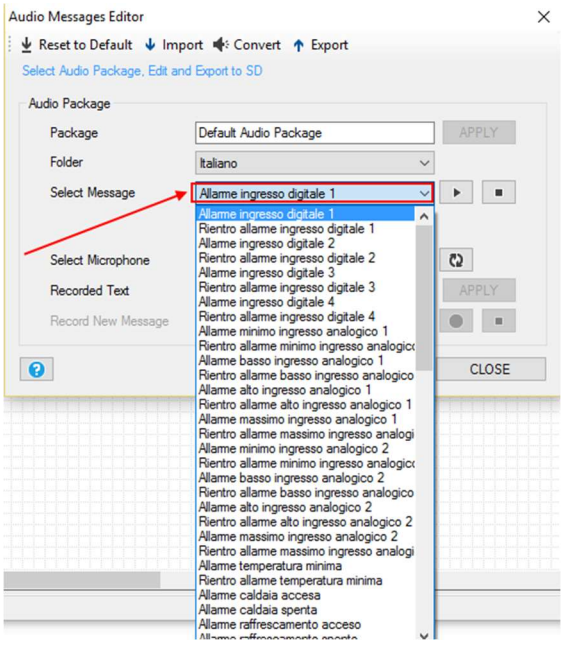
To edit an audio file you need to access the Audio Editor tool:



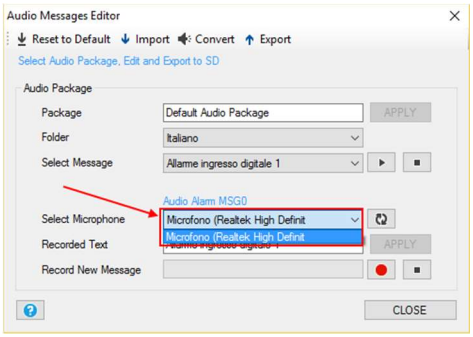
Audio Editor allows overwriting a factory audio file with a customised one; select the language:



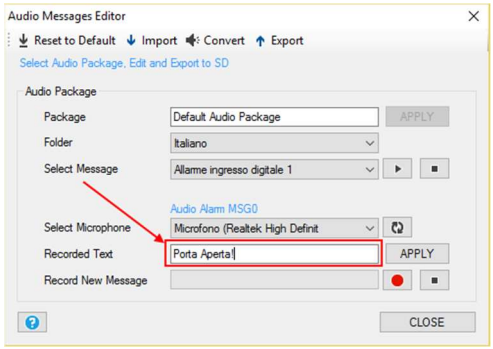
And the message to edit:



Now select the microphone to be used to record the new message:

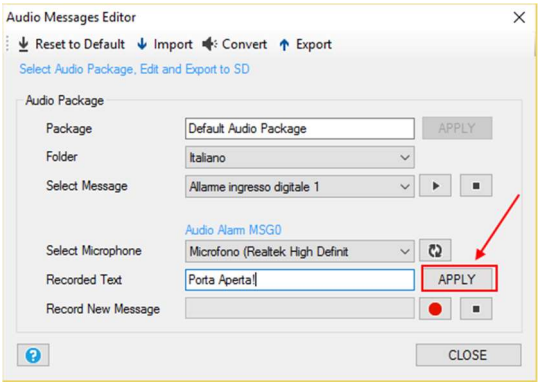


And, if you wish, modify the mnemonic text associated with the audio message:

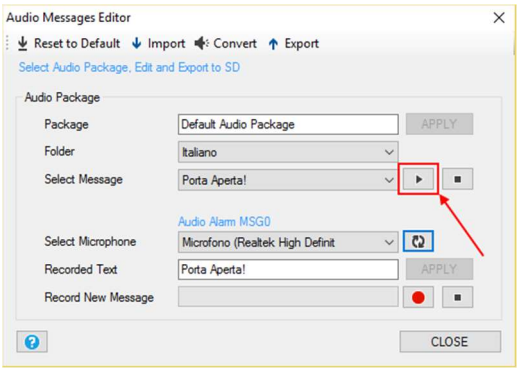


Now it is possible to record the new audio message with the rec key. At the end press stop .

Confirm with the "Apply" key:



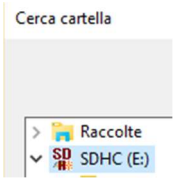
You can listen to the recording using the Play key:



For the RTU to use the new audio files, they have to be exported onto the microSD card.

Switch the RTU off, take the microSD card out and connect to the PC.

Select the Export icon followed by the microSD card:



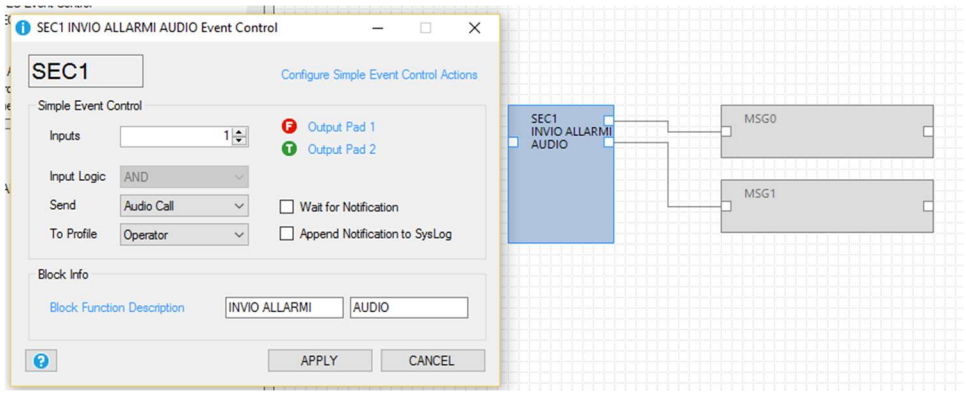
The new message will appear among those available:

And can be used in the projects.

It is also possible to import a customised audio package with the Import key.

3.3. Setting the Simple Event Control to send audio messages

It is necessary to define in the Simple Event Control that sending the messages must take place via an audio call:

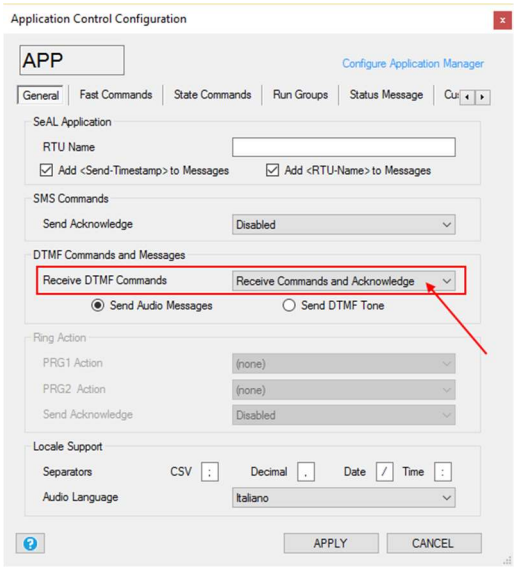


3.4. Confirming reception of the audio message

When an alarm is triggered, the number called may refer to a phone that is switched off or busy with another call.

According to the operator, an answering machine may be on and this would not allow the RTU to understand if the audio message has been listened to or not.

To make sure the message has been received, you need to activate an option that allows confirming reception of the audio message; select the APP icon:



With this option you need to confirm reception of the audio message by pressing the "*" key on the phone keypad.

This is the only way the RTU stops calling the next number on the list.