SENECA

APPLICATION NOTE:

DIVIDING ALARMS AMONG THE VARIOUS USERS

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APPLICATION NOTE

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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 is 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.

The sample setting refers to Z-GPRS3 but it is the same for the other RTUs.

2. PURPOSE OF THE GUIDE

The purpose of this guide is to explain how to divide alarms by defining group, profiles and users.

3. SENDING ALARMS TO DIFFERENT USERS IN THE ADDRESS BOOK

SEAL allows sending alarms to different users by defining groups, profiles and users.

When a new user is defined in the address book, a profile this user belongs to must be provided (no more than one per user), a profile is associated to 1 or more groups, the groups represent the sending groups.

If only one user must be managed, just create a user with an administrator profile. The administrator profile is present in each group and therefore you just have to configure sending, for instance, to the "Operator" profile in the logic block.

5 users with the following characteristics must be created:

User	Receives the alarms of the digital inputs
Manuel	DIN1, DIN2 e DIN3
Francesco	DIN1
Alessandro	DIN1
Giovanni	DIN2
Loris	DIN3

From which an alarm group can be obtained:

Alarm	Alarm group
DIN1	GroupDIN1
DIN2	GroupDIN2
DIN3	GroupDIN3

Entered in a table, you get:

User	Receives the alarms of the digital inputs	Alarm groups
Manuel	DIN1, DIN2 e DIN3	GroupDIN1, GroupDIN2, GroupDIN3
Francesco	DIN1	GroupDIN1
Alessandro	DIN1	GroupDIN1
Giovanni	DIN2	GroupDIN2
Loris	DIN3	GroupDIN3

For identical groups, the same sending profile is used:

User	Receives the alarms of the digital inputs	Alarm groups	Sending profiles
Manuel	DIN1, DIN2 e DIN3	GroupDIN1, GroupDIN2, GroupDIN3	Administrator (ProfileDIN1, ProfileDIN2, ProfileDIN3)
Francesco	DIN1	GroupDIN1	ProfileDIN1
Alessandro	DIN1	GroupDIN1	ProfileDIN1
Giovanni	DIN2	GroupDIN2	ProfileDIN2
Loris	DIN3	GroupDIN3	ProfileDIN3

Since user Manuel must receive the alarms from all inputs, he can be connected to the special Administrator profile; the diagram in the table is as follows:
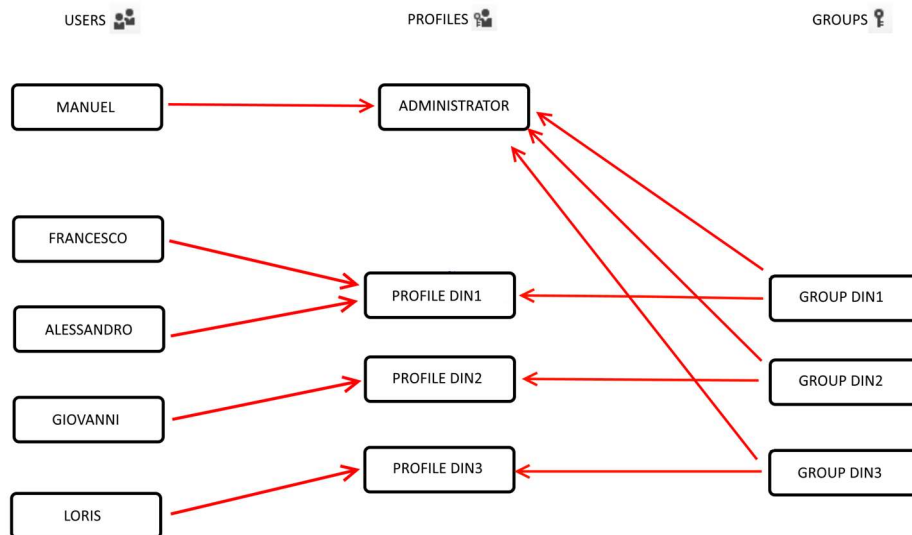
Profile DIN1 is connected to groupDIN1, group DIN1 is connected to users Francesco, Alessandro, Manuel

Profile DIN2 is connected to group DIN2 and to users Giovanni and Manuel
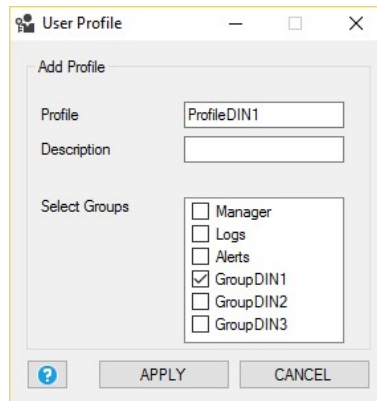
Profile DIN3 is connected to group DIN3 and to users Loris and Manuel

First of all, create the 3 groups:
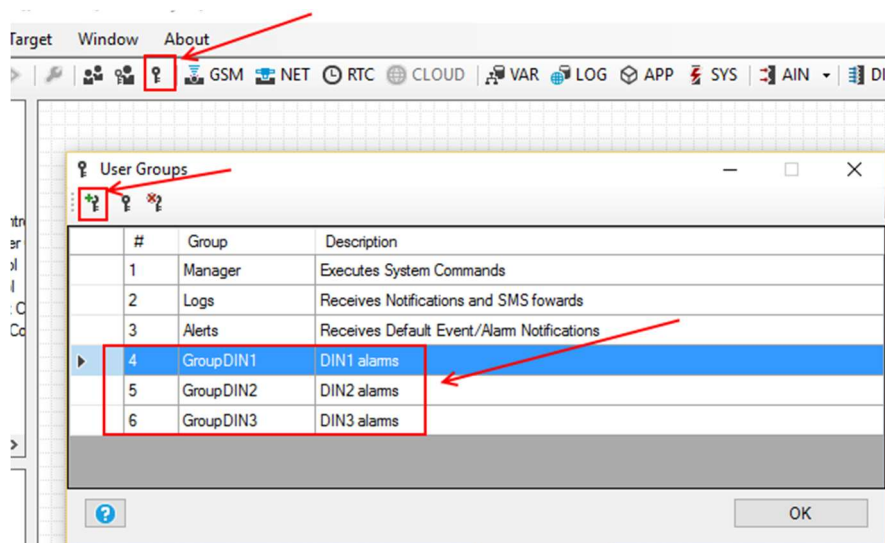
Go to Profiles:

Create ProfileDIN1 associated to GroupDIN1:
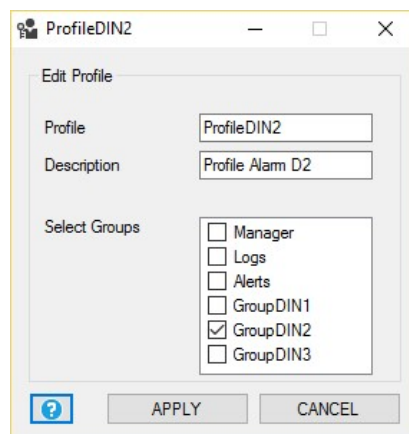
Create ProfileDIN2 associated to GroupDIN2:

And create ProfileDIN3 associated to GroupDIN3:
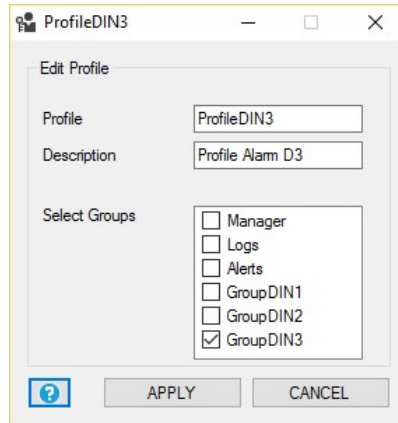
You have therefore obtained the 3 groups you need:
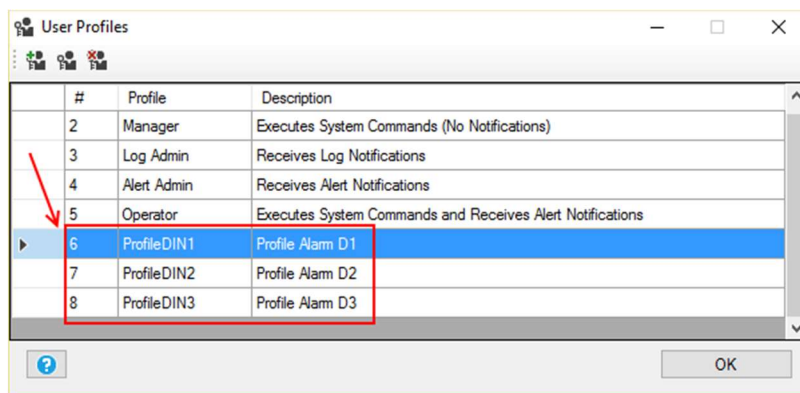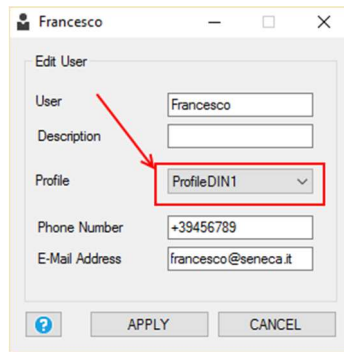
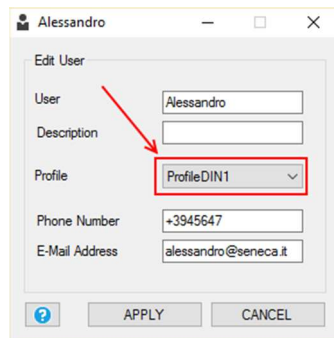Last, create users and associate them to the profiles according to the established diagram:

Create Manuel with the special Administrator profile, so that he is connected to all groups
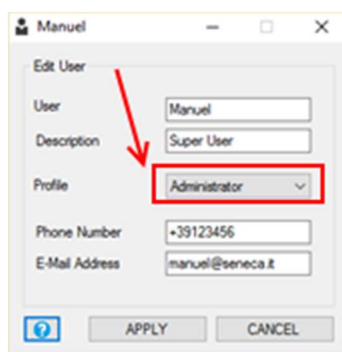
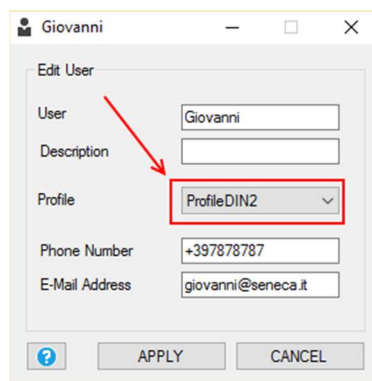Create Francesco and Alessandro connected to the Profile with alarms on DIN1:
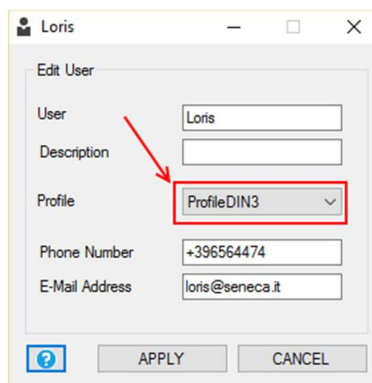
Then create Giovanni with the Profile connected to the alarms on DIN2:

And Loris with the Profile connected to the alarms on DIN3:

At this point the connections between users - profiles - groups are completed.

Now the logic must divide the alarms among the three profiles:
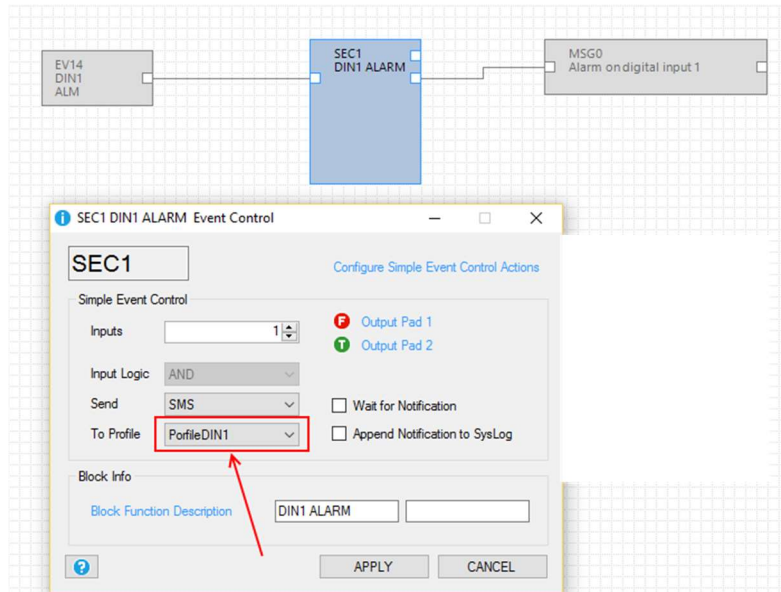
Earlier on you saw that this profile is connected to group DIN1 and therefore the alarm will be sent to users: Manuel, Francesco and Alessandro.
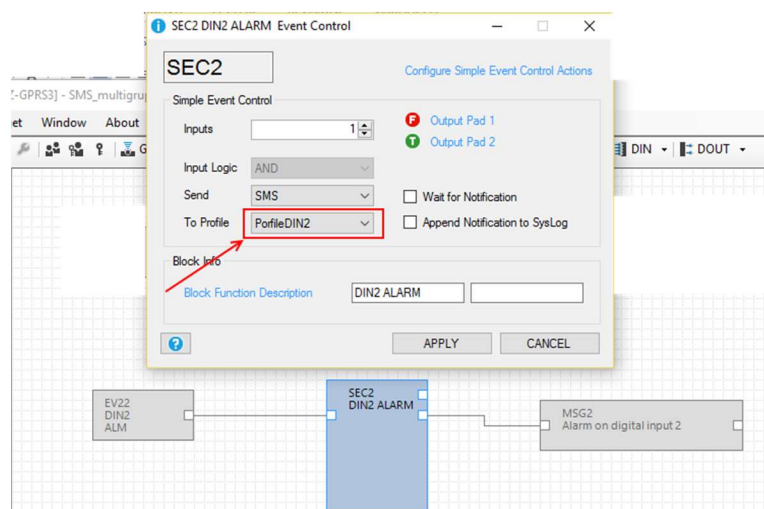
Earlier on you saw that this profile is connected to group DIN2 and therefore the alarm will be sent to users: Manuel and Giovanni.
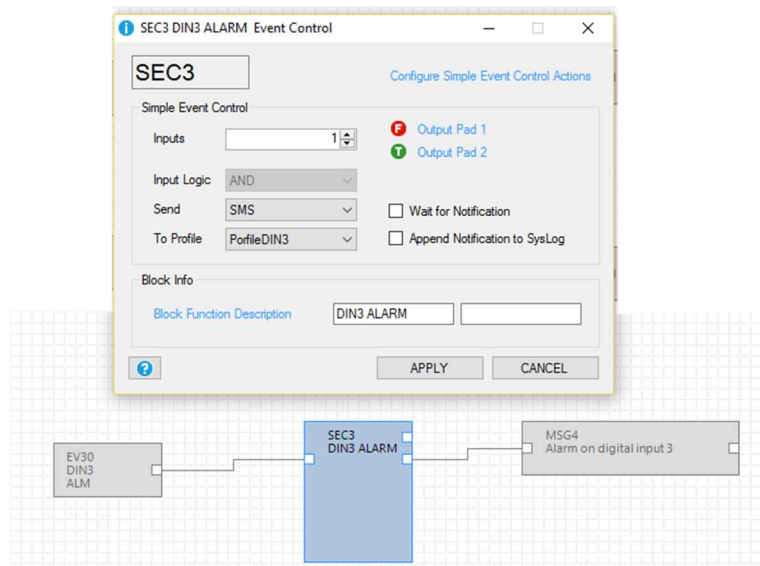
Earlier on you saw that this profile is connected to group DIN3 and therefore the alarm will be sent to users: Manuel and Loris.

Note!

User Manuel with the Administrator profile can be removed

4. Complex division of alarms among users

Consider an alarm system divided this way:

User	Receives alarms
1 Manuel	DIN1 and DIN3
2 Massimo	DIN1 and DIN3
3 Francesco	DIN2
4 Alessandro	DIN1 and DIN2
5 Giovanni	AIN1
6 Loris	AIN2
7 Giorgio	DIN1, DIN2 and AIN1

From which an Alarm group can be obtained for each alarm:

Alarm	Alarm group
DIN1	GroupA
DIN2	GroupB
DIN3	GroupC
AIN1	GroupD
AIN2	GroupE

And you get the table:

User	Receives alarms	Alarm groups
1 Manuel	DIN1 and DIN3	GroupA and GroupC
2 Massimo	DIN1 and DIN3	GroupA, GroupC
3 Francesco	DIN2	GroupB
4 Alessandro	DIN1 and DIN2	GroupA, GroupB
5 Giovanni	AIN1	GroupD
6 Loris	AIN2	GroupE
7 Giorgio	DIN1, DIN2 and AIN1	GroupA, GroupB, Group D

Now assign a sending profile to the groups, taking into account that a Profile can be assigned to multiple groups:

User	Receives alarms	Alarm groups	Sending profiles
1 Manuel	DIN1 and DIN3	GroupA and GroupC	Profile1
2 Massimo	DIN1 and DIN3	GroupA and GroupC	Profile1
3 Francesco	DIN2	GroupB	Profile2
4 Alessandro	DIN1 and DIN2	GroupA and GroupB	Profile3

5 Giovanni	AIN1	GroupD	Profile4
6 Loris	AIN2	GroupE	Profile5
7 Giorgio	DIN1, DIN2 and AIN1	GroupA and GroupB, Group D	Profile6