GENT
by Honeywell

User guide

Nano Commissioning Tool V2.x



Contents

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Preface

This is the third issue of the user guide for the Nano Commissioning Tool V2.X for Nano panel based system having main controller at V2.5X.

Associated documents

4188-949 Nano Commissioning Instructions
4188-948 Nano Data and installation instructions
4188-947 Nano Operating instructions

Conventions



This is a note to highlight important text that is normally hidden in the main text.



This is either a caution to prevent damage to the equipment or a warning to inform of dangerous conditions that may result in injury or death.

Nano Commissioning Tool

The Nano Commissioning tool is used to configure and label a Nano panel based fire detection and alarm system. These instructions cover how to install the tool, use the functions of the tool to enter preliminary information about the system, retrieve devices, configure and label the whole system and transmit the configuration to the panel. Additionally this tool has command functionality that can directly control the panel, to sound alarms, silence alarms, reset system, simulate fires and enable/disable devices, zones and sectors.

How to get the Nano Commissioning tool program

The Nano Commissioning tool software program can be downloaded from the Gent Expert forum : (www.gentexpert.co.uk).
The website is accessible to Gent System Integrators who have registered. If you have not registered then simply click on the 'registration link' and follow the on screen instructions.

You should download the Nano Commissioning tool software from Gent Expert forum to a directory.

Installing the Commissioning tool program

The Nano Commissioning tool software can run on most laptops having Windows XP PRO with Service pack 2 or 3, Windows Vista Business with Service Pack 1 or Windows 7.



Before installation of the Nano Commissioning tool program refer to the information on Gent Expert regarding any additional requirements, such as installation of DOTNET framework V2.0 and Crystal Report Runtime Viewer V10.0.

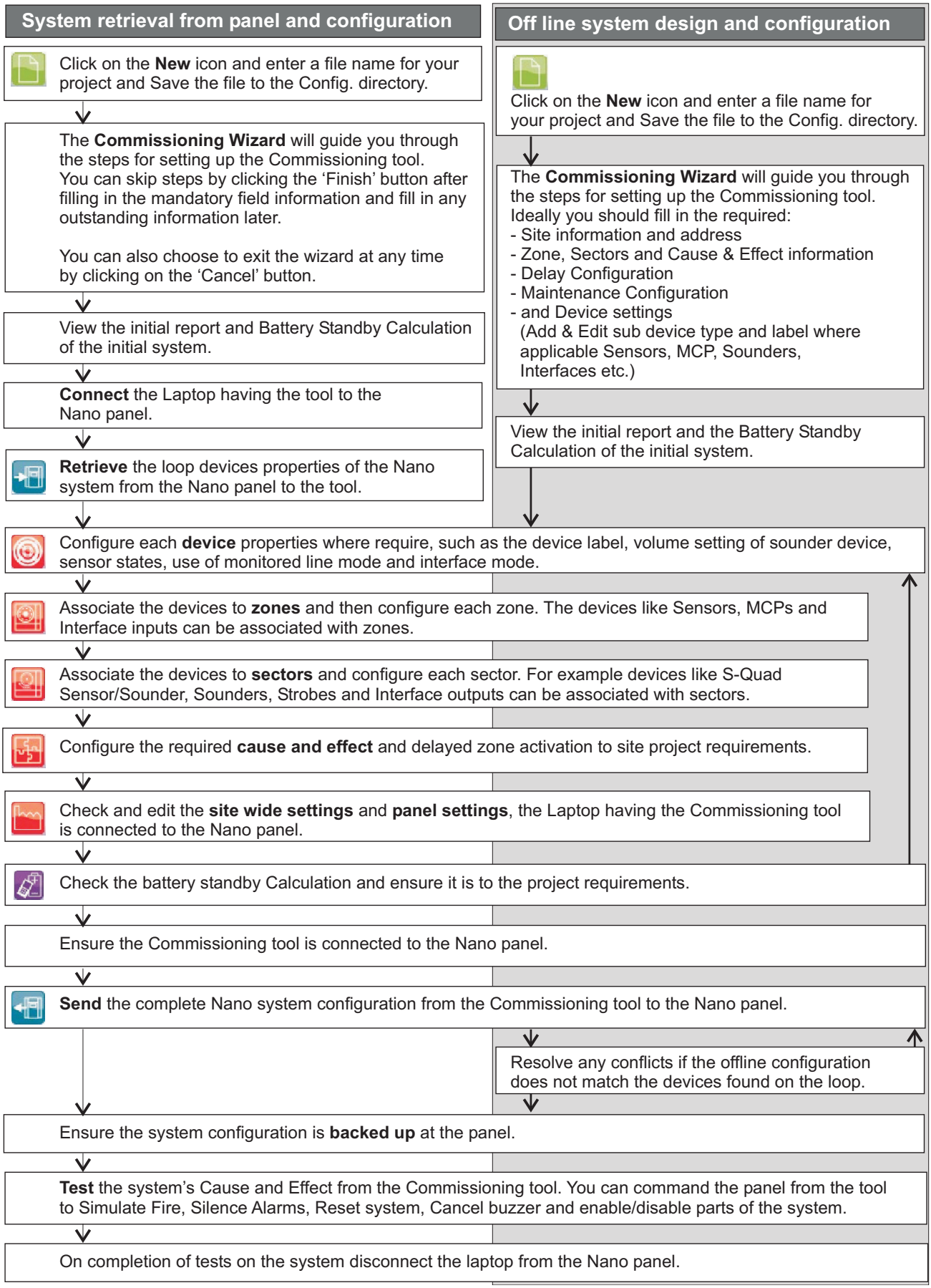
- ☐ Find the directory that holds the Nano Commissioning tool installation and double click on **Nano Commissioning Tool.exe.** Follow the on screen instructions to complete the installation.
- ☐ After the tool installation you can install the USB driver for the Nano panel:
  START -> Programs -> Nano Commissioning Tool -> Install USB Driver.

Upgrading the Commissioning tool program

Before you upgrade or downgrade your Nano Commissioning tool program you must first remove the existing Nano Commissioning tool program from your computer.

- ☐ START -> Settings -> Control Panel -> Add or Remove Programs -> Change or Remove Programs.
- ☐ Scroll through the current programs and select the Nano Commissioning Tool and click on the 'Remove' button.
- ☐ Follow the on screen instructions and once the previous program is removed you can then install the upgrade or downgrade by following the procedures for 'Installing the Commissioning tool Program'.

Commissioning process using the tool



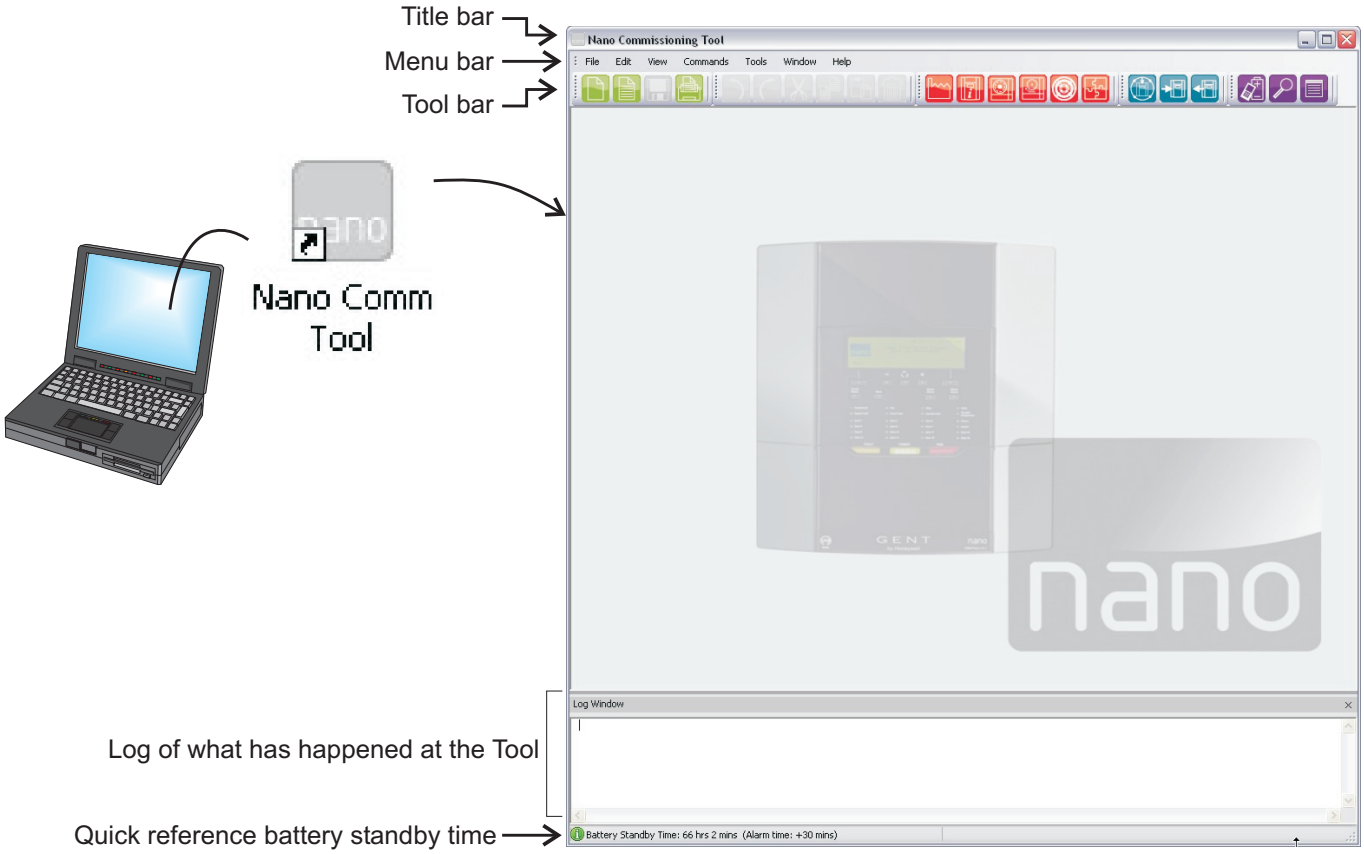
Compatibility with Nano V1.x Commissioning Tool

The Nano V2.x Commissioning tool can accept Nano V1.x Commissioning Tool configuration file, however once a V1.x a **.prj** file is opened in V2.x tool the file can only be saved as **.mdb** file.

When a V1.x file is configured using a V2.x tool then only the V1.x tool functions in the V2.x tool are applicable. An example of this is the **Calendar function** which is applicable for system configured for use in V2.x system and not applicable for system configured for use in V1.x system.

Starting the Nano Commissioning Tool

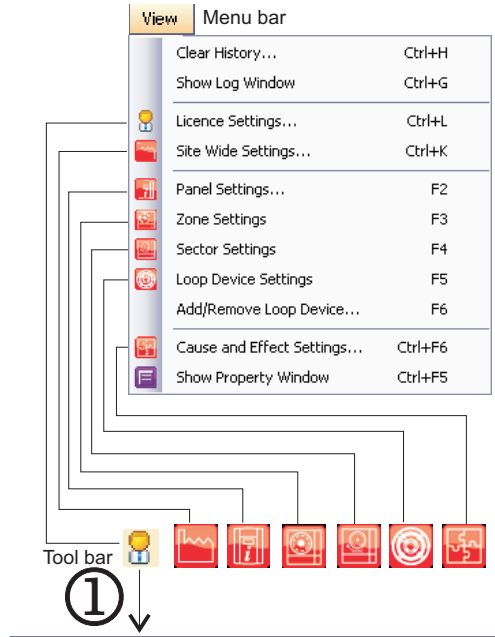
You can start the Nano Commissioning tool by clicking on the Nano icon or by selecting the Nano tool from the windows programs menu,ie Start -> Program -> Nano Commissioning Tool -> Nano Commissioning tool.

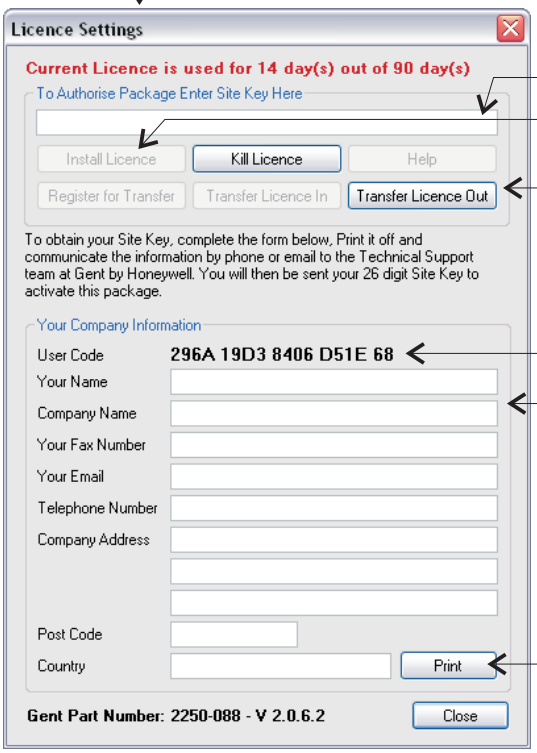


How to obtain a License for the tool

It is possible to use the commissioning tool 'offline', that is disconnected from the Nano panel, in order to prepare configuration data and run battery standby calculations without the need to license the tool. A license is required before attempting to connect the commissioning tool to the Nano panel in order to upload/download configuration data and/or control the panel.

To obtain a Nano Commissioning tool license you will need to get a Site Key from Technical Support to activate the tool, follow steps 1 to 4.





④ Enter the **Site Key** here and then select the **Install License** button and follow the on screen instructions. You will receive a message: "License is Successfully installed" when it is fully installed.

The Nano Commissioning tool License can be moved from one computer to another by using the **Transfer License Out** and **Transfer License In** buttons. This ensures only one computer can run a licensed copy of the tool.

User Code

② Enter your name and company details.

③ **Printout** the details entered using the 'Print' button. Note the unique **UserCode** is required to obtain a **Site Key. Phone** or **email** the details on the printout to the Technical Support Team at Gent by Honeywell:

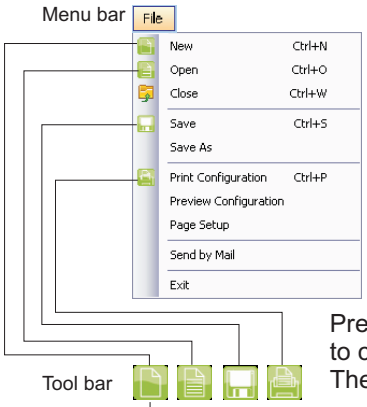
Email: technical.services@honeywell.com
Telephone: 0116 246 2134

You will receive a unique **Site Key**, which is a long alphanumeric code for entry, see ④.

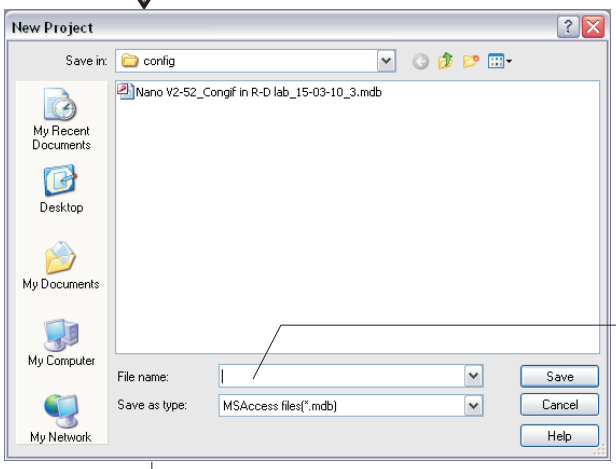
You can transfer the License from one computer to another using the 'Transfer License Out' and 'Transfer License In' functions.

How to create a 'New' project file

The first step is to create a new project file and follow the wizard to enter the preliminary details about the site.

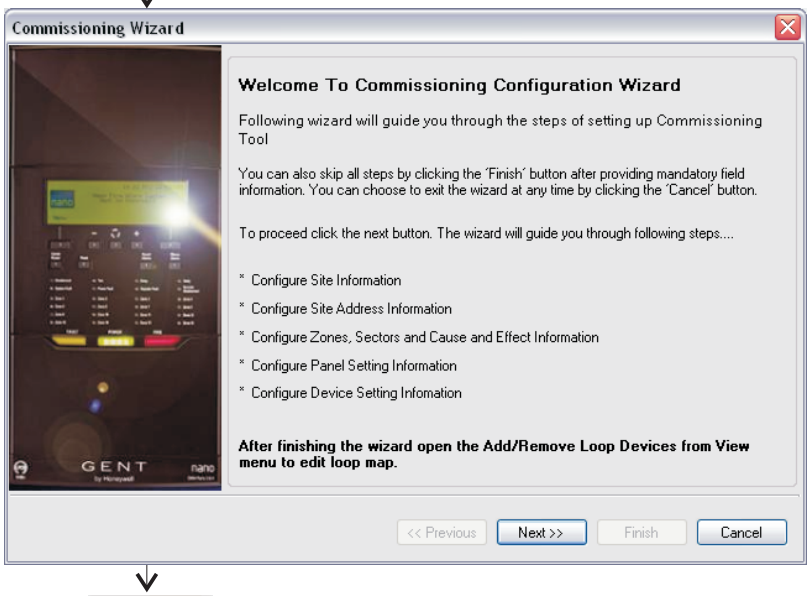


Press **Ctrl + N** or select the **New icon** or **New** from the *File* menu to create a new project file, which can be saved to a directory. The new project file will be a MSAccess file. (**xxx.mdb)**.



Select 'config' folder from the Nano directory

Enter a file name here.



The **Commissioning tool Configuration Wizard** will guide you through the steps for entry of:

- □ Site information
- □ Site Address
- □ Number of zones and sectors
- □ Required Cause and Effect
- □ Customer Message
- □ Maintenance message configuration
- □ Devices in the system

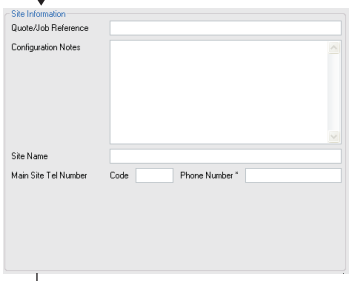
A field marked with an * indicate mandatory information.

Select Next >> and continue, see next page.

Commissioning Configuration Wizard

The wizard will guide you through entry of all the system information, however majority of the entries after ③ are only necessary for an off-line designed and configured system.

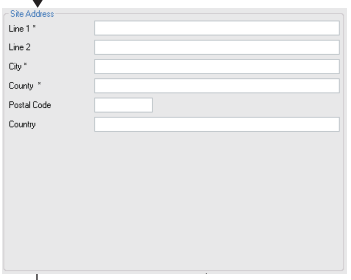
A field marked with an * is a mandatory entry.



①

Site information
- Quote/Job Reference
- Configuration Notes
- Site Name
- *Telephone number

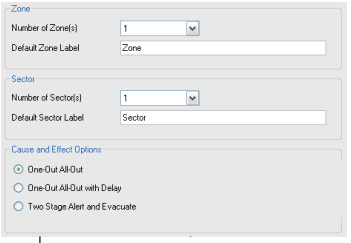
Next >>



②

Site Address
- * Address
- * City
- * County
- Postal Code
- Country

Next >>



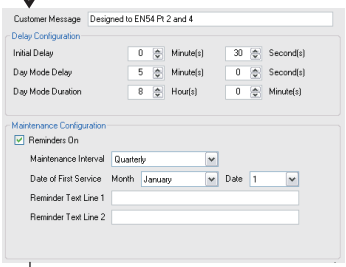
③

Zone
- Number of zones & label

Sector
- Number of sectors & label

Cause and Effect options
- One out All out
- One out All out with Delay
- Two Stage Alert and Evacuate

Next >>



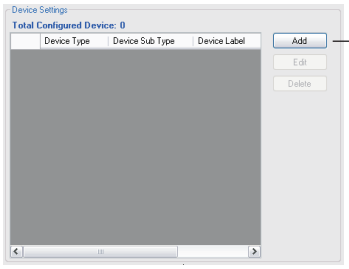
④

Customer message

Delayed Configuration
- Initial delay, day mode delay Day mode duration

Maintenance configuration
- Interval, date of first service
- Reminder text to be displayed

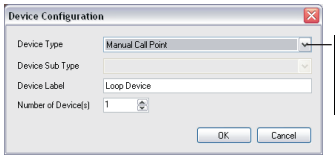
Next >>



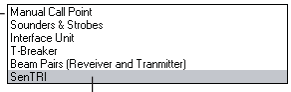
⑤

You can add devices for an off line designed system and edit device type, sub device type and label where appropriate.

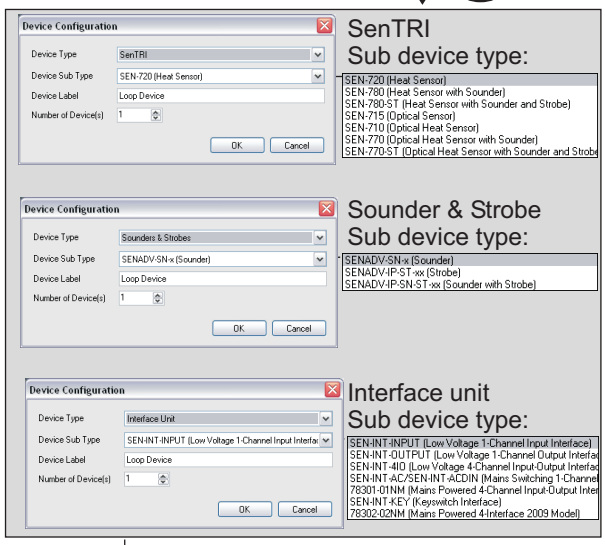
⑥



Device types:



⑦



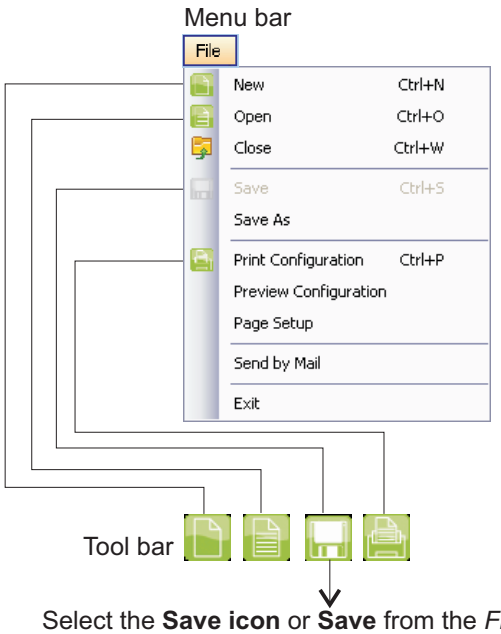
⑧ Finish → ⑨

Display of report status and battery calculation of system devices and configuration entered

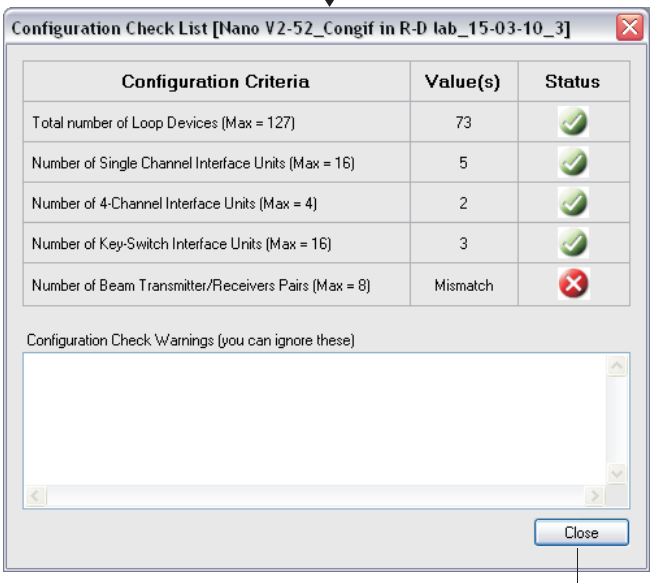
How to 'Save' a project file

Once the information is entered in the tool you must save the data to the project file.

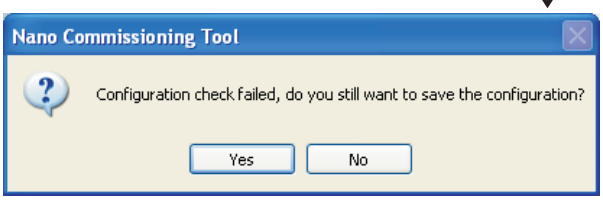
It is a good practice to save work on a regular basis, every 15 minutes, to avoid loss of entered data.



Select the **Save icon** or **Save** from the *File* menu to save any changes made to the Project file.



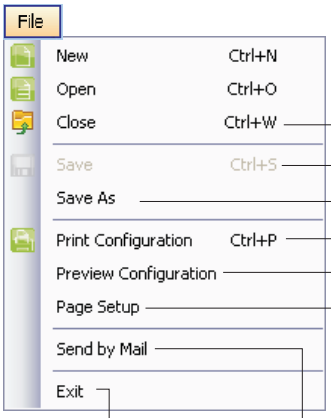
If there are discrepancies in the entered values that do not meet the configuration criteria, then the **Configuration Check List** window will pop up. For example if the maximum number of loop devices, interface units, keyswitch interfaces, beam sensors are exceeded then this window will appear to provide a warning that corrections are required. In this example the check has failed because there are is a mismatch of beam sensors on the loop.



You can select 'No' and amend the configuration to pass the check and save the configuration

File Menu options

Menu bar

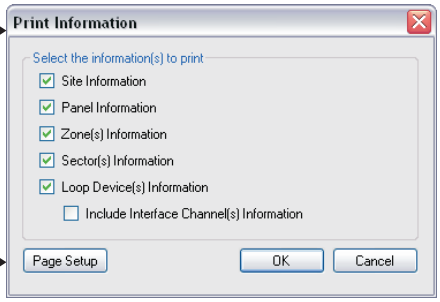


Press **Ctrl + W** or select **Close** from the *File* menu to close the project file without saving the configuration and labels.

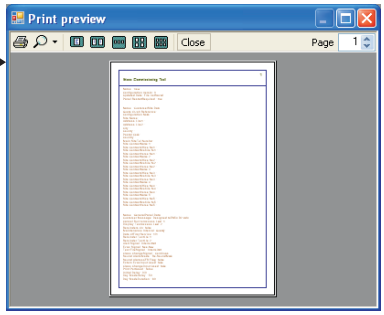
Press **Ctrl + S** or select the **Save icon** or select **Save** from the *File* menu to save the configuration and labels to the project **xxx.mdb** file.

Select **Save As** from the *File* menu to save the project file under a new filename **yyy.mdb.**

Select **Exit** from the *File* menu to close the Nano Commissioning tool.

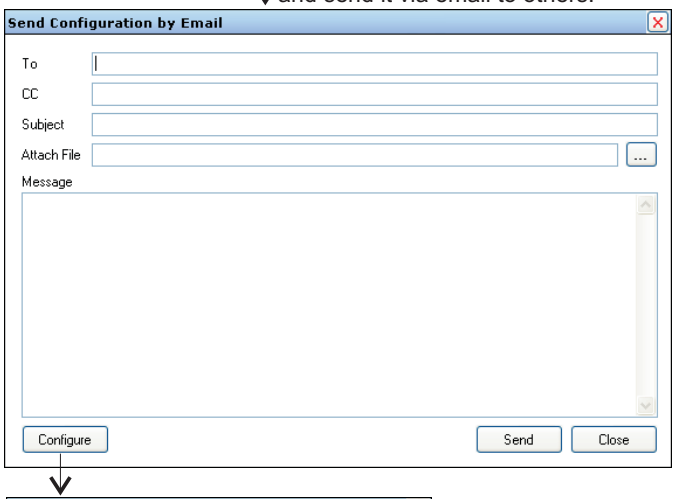


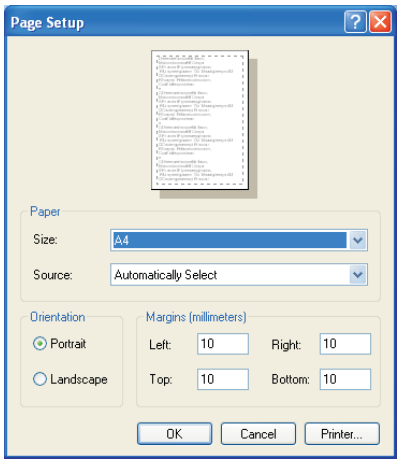
Select the **Print Configuration icon** or select **Print Configuration** from the *File* menu and check the information to be sent to the printer.
You can check:
- Site information
- Panel information
- Zones information
- Sector(s) information
- Loop Device(s) information
- Include interface channels information



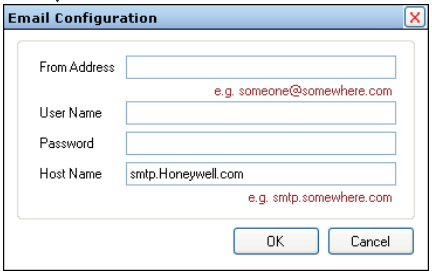
Select **Print Preview** from the *File* menu to display the actual layout of the printed page on your laptop. You can look at all the pages of the printout, view details of the page by zooming in to ensure the printable area.

You can attach a project file and send it via email to others.





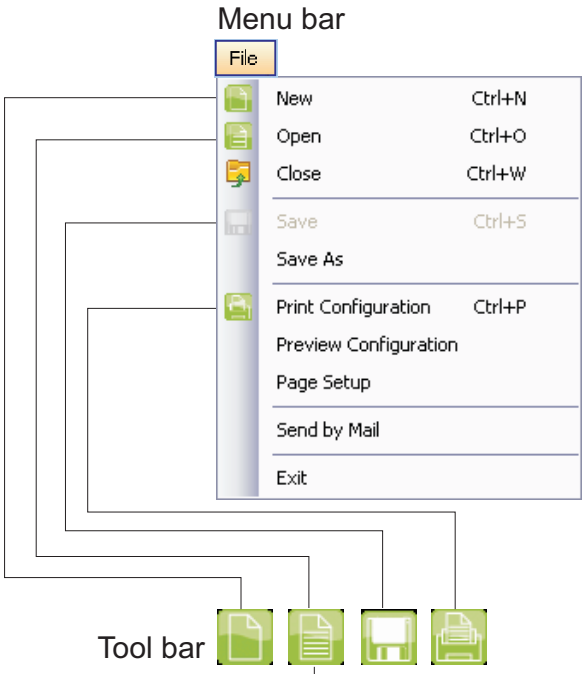
Select **Page Setup** from the *File* menu to define the print settings, which includes paper size, source, orientation and margins. If printing is via a network connection then you can select any networked printer.



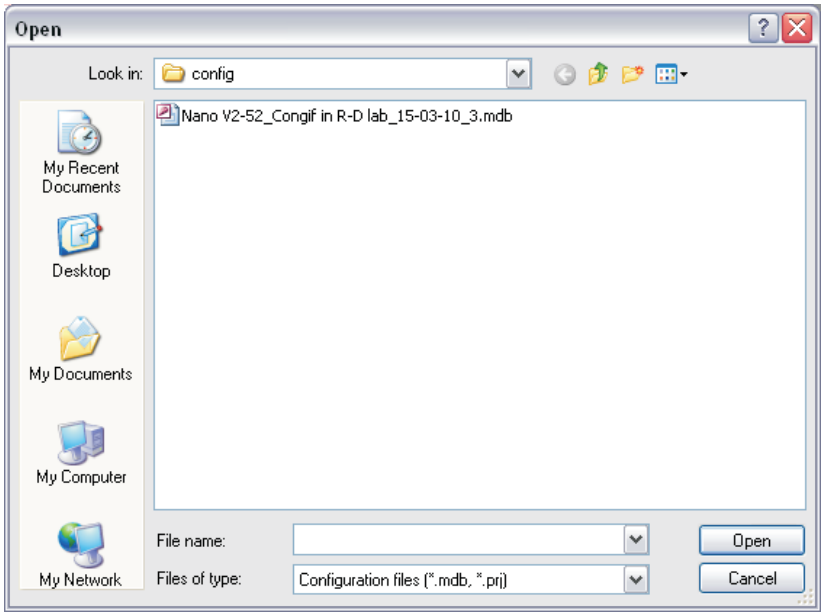
This is where you declare the smtp host before the configuration is emailed.

How to 'Open' an existing project file

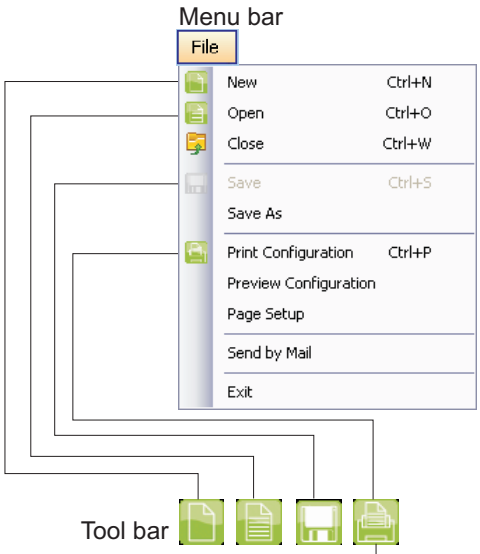
The Nano V2.x Commissioning tool can accept Nano V1.x Commissioning Tool configuration file, however once a V1.x a **.prj** file is opened in V2.x tool the file can only be saved as **.mdb** file.



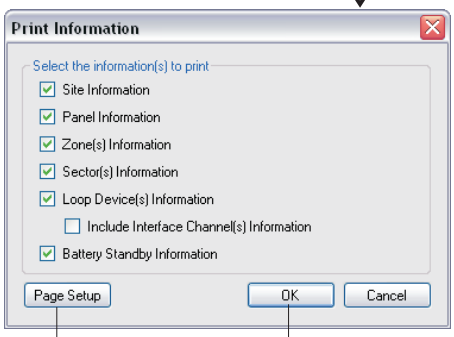
Press **Ctrl + O** keys or select **Open** from the *File* menu or click on the **Open icon** to open a previously saved project file.
A project file holds the system configuration and labels which can be edited once the file is opened (**xxx.mdb).**



How to 'Print' selective configuration



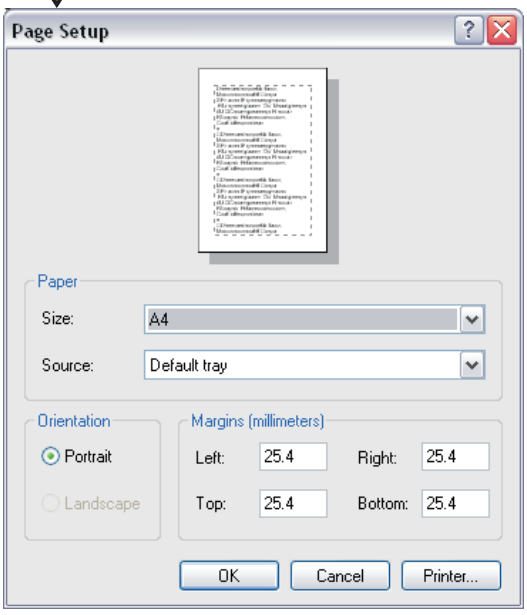
Press **Ctrl + P** or select **Print Configuration** from the *File* menu to print the Nano system configuration and labels to a connected printer.

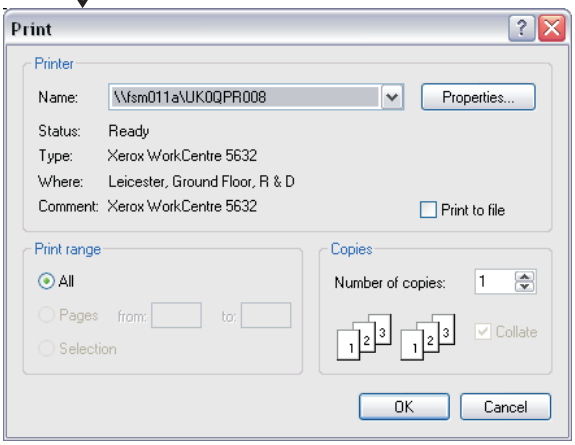


You can select the information you want printing:
- Site information
- Panel information
- Zones information
- Sector(s) information
- Loop Device(s) information
  - To include interface channels information

- Battery Standby information

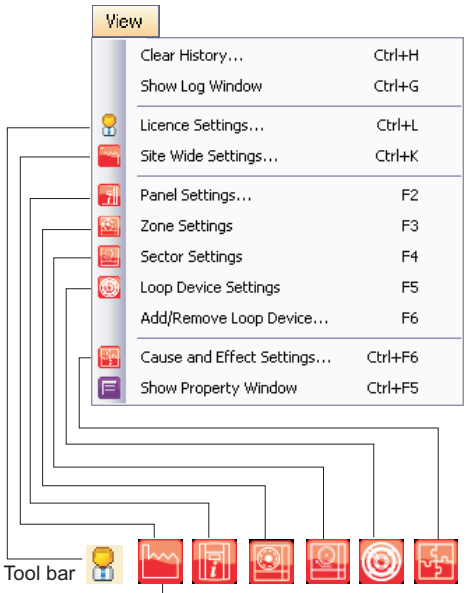
You can select the print to the selected printer.



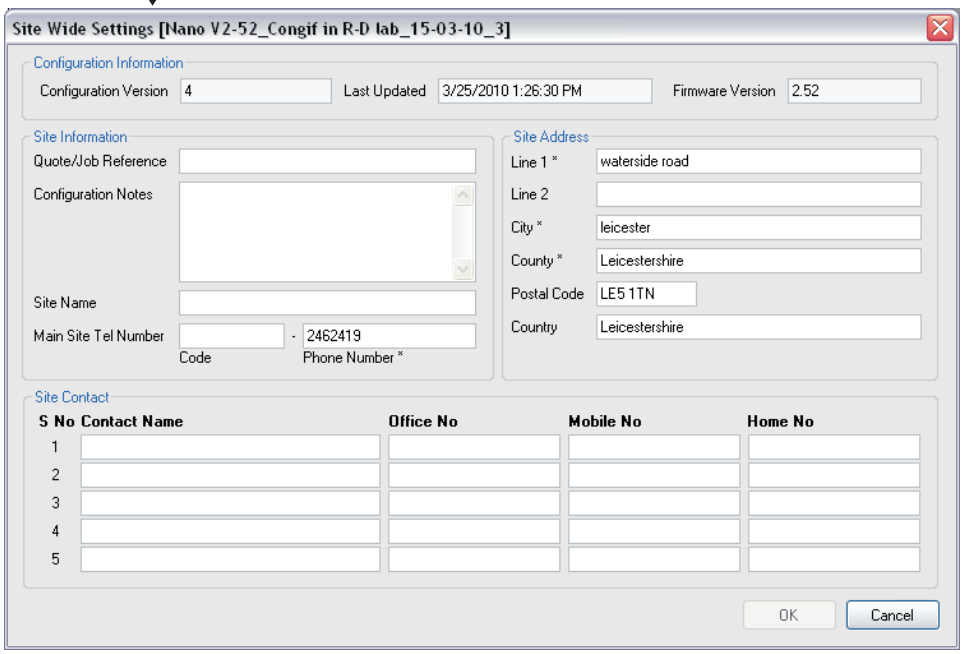


You can specify the paper size, page orientation, margins and select the printer to which information is printed.

How to enter 'Site Wide Settings'



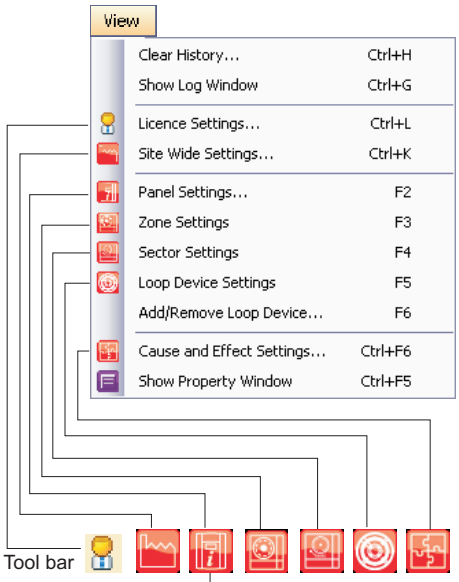
Select the **Site Wide Settings icon** or **Site Wide Settings** option in the *View* menu or press the **Ctrl + K** keys to allow entry of information like: Quote/Job reference number, configuration notes, site name, phone number, address and site contact details (details of Responsible persons).



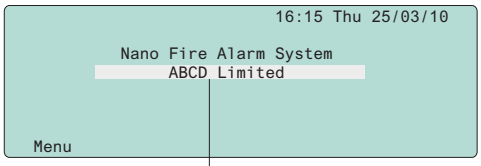
Note the field marked with an * are mandatory entry.

How to enter the 'General' values of Panel Settings

The general panel settings have options to set the use of External Evacuate Input, Class Change Input, Printer port usage and Repeat indicator panel. The form allows entry of the current taken by the Master Alarms and External 24V DC output. The Maintenance configuration entries include reminder settings of interval, Date of first service and the reminder text.



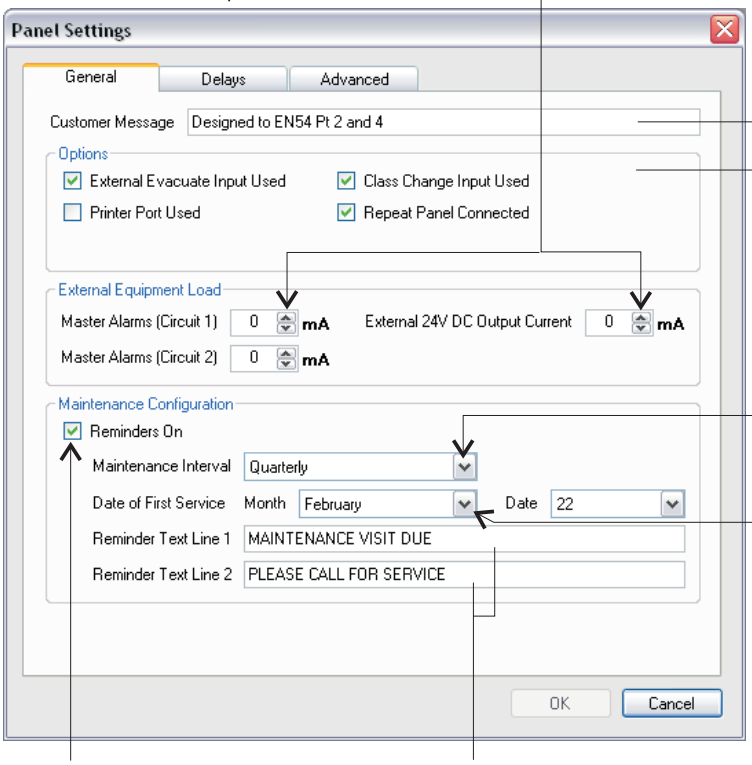
Select the **Panel Settings icon** or **Panel Settings** option from the *View* menu.

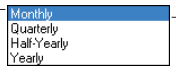


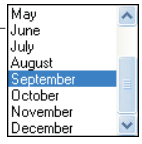
Enter a current value in 'mA' taken by the master alarm circuits and the external 24V Output. A value of up to 200mA maximum for each circuit is allowed.

This 'Customer message' that appears on the panel display in place of the Gent by Honeywell

Click on the required check box if it is used: **External Evacuate Input, Printer Port usage, Class Change Input** and **Repeat indicator panel**







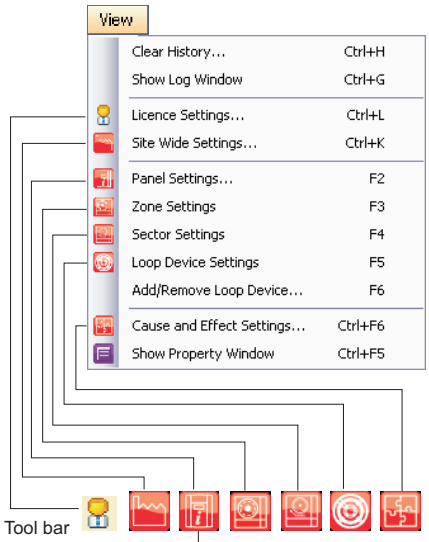
Set the Maintenance Reminder interval to Monthly, Quarterly, Half Yearly or Yearly from the date of first service.

Click the check box to switch On the Maintenance Reminder function.

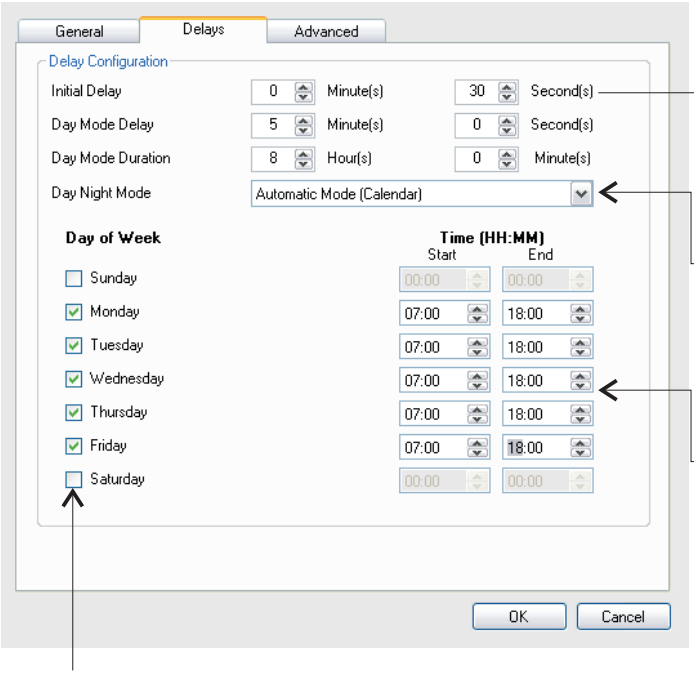
In these two lines you can enter the Maintenance Reminder text, to include how to contact the servicing organisation.

How to enter 'Delay' values of Panel Settings

The delays settings have a number of options, to enable the weekly fire test settings for selected days of the week, with start and end time entry as 24hour clock. The Day Night Mode can be set to Night Mode, (delays permanently Off), Manual (Day/Night mode selected by user), Automatic (Calendar) or Day Mode (Delays permanently On).



Select the **Panel Settings icon** or **Panel Settings** option from the *View* menu and then select the *Delays* tab.



These settings apply delay to alarm activation upon pressing of the Verify button on the panel.
- Initial delay has a factory setting of 30 seconds
- Day mode delay has a factory setting of 10 minutes
- Day mode timeout duration has a factory setting of 8 hours and can be up to 24hours

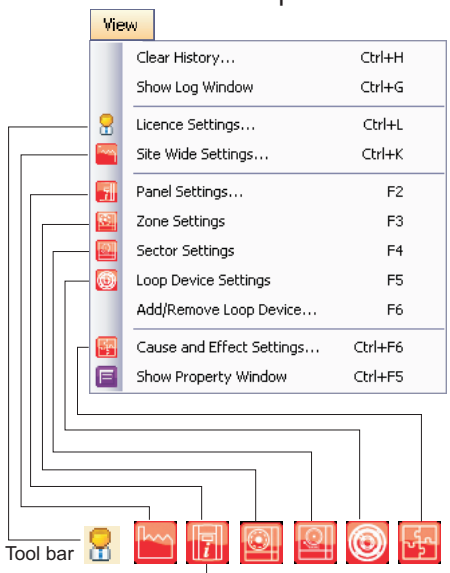
You can set the Day Night mode to operate in
- Night mode, that is with delays permanently Off
- Manual mode, that is with the delays as set above when Verify is selected by the user.

For automatic Calendar select the days of the week when delay is required and define the Start and End time of the delay.

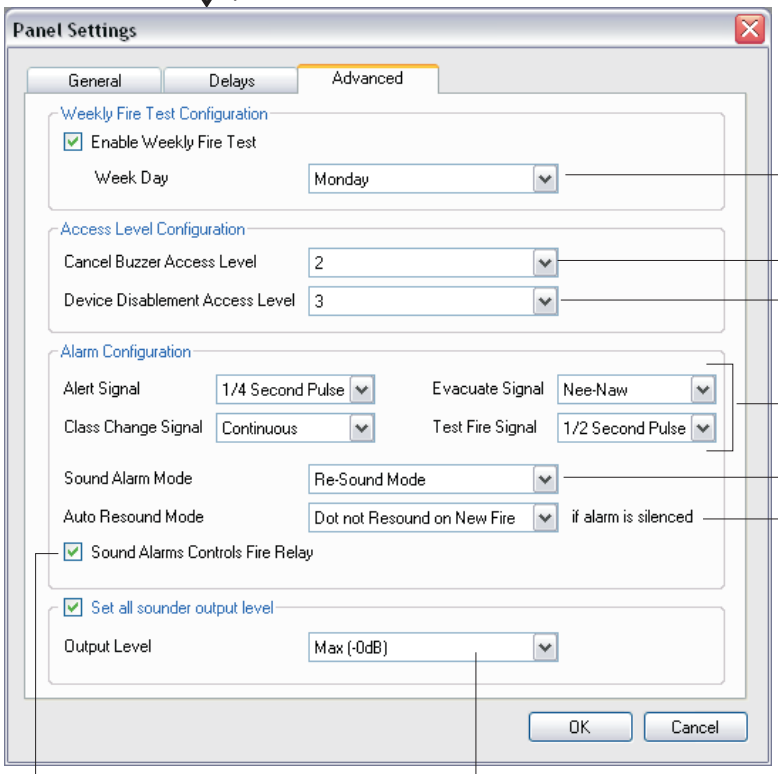
Click the check box to apply the Calendar mode to selected days of the week.
This example shows Monday to Friday being checked for Calendar mode operation.

How to enter 'Advanced' values of Panel Settings

The advanced panel settings have a number of options, to enable the weekly fire test configuration and allow selection of the test day. Change of access level at which the panel buzzer and device disablement test is operable. The 'Alarms configuration' to include change of signal for Evacuate, Alert and Class change, plus Sound Alarm mode of operation and Fire Relay operation with the Sound Alarm button.



Select the **Panel Settings icon** or **Panel Settings** option from the *View* menu.

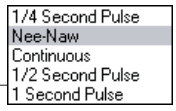


* - Default Factory settings

Click the check box to switch ON the **Enable Weekly Fire Test** reminder and then select the **day** of the week for the reminder message to appear on the panel display.

You can change the **Cancel Buzzer** to be operable at Access Level 1 or **2*.**

You can change the **Device disablement** function to be operable at Access Level **2*** or 3



If required you can change the sound signal given out for Alert, Evacuate, Class Change and Test fire.
The factory settings are:
Alert - 0.25 second pulse
Evacuate - Nee Naw
Class Change - Continuous
Test - 0.5 second pulse .

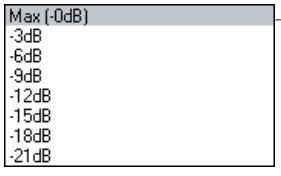


ReSound mode: After alarms have been silenced during a fire condition the same alarms can be reactivated by pressing the 'Sound Alarms' button, **Sound mode:** pressing the 'Sound alarms' button will activate all sector alarms.



Do not ReSound on New Fire setting will not resound alarms in the event of a new fire.
Resound on New Fire setting will cause alarms to resound in the event of a new fire.

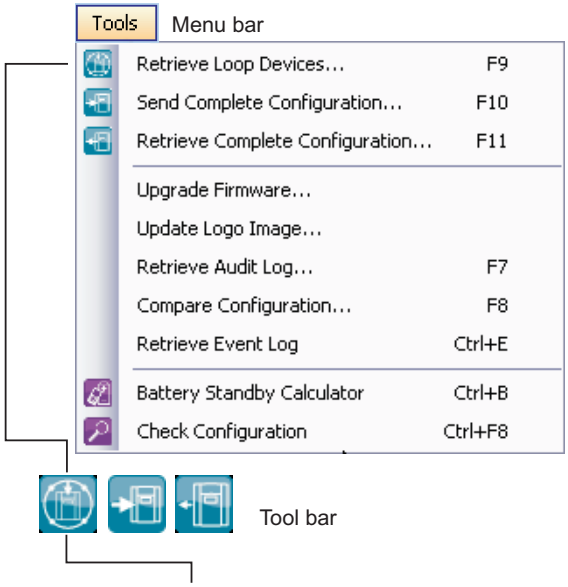
The **Fire relay** can be configured to be active with the 'Sound alarms' button.



The output level of all the alarm sounders in the system, i.e. sounders in S Quad and S Cubed devices can be configured globally to give a sound output at a particular level.

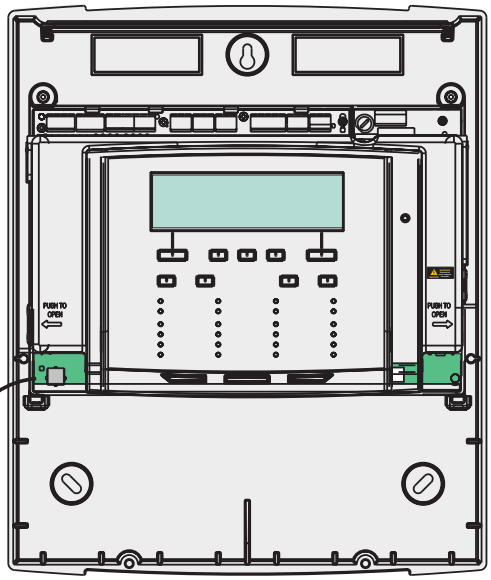
How to 'Retrieve' loop devices from the panel

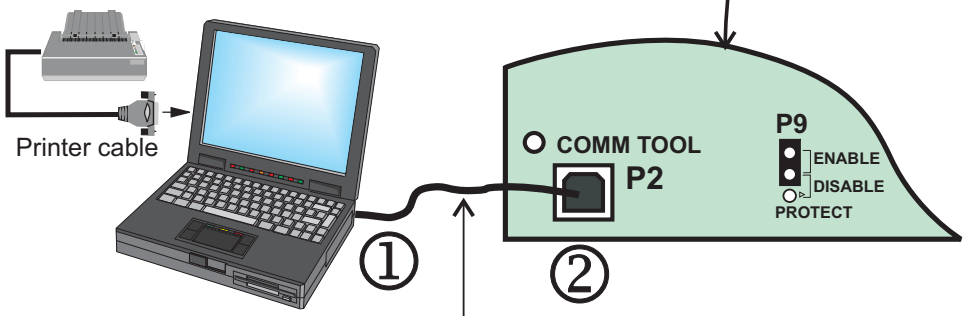
Assuming you have saved a 'New' project and have entered the mandatory information via the wizard you can retrieve the loop devices from the nano panel. To do this you will need to connect the laptop to the Nano panel using a USB lead and then select the Retrieve Loop Device icon. Ensure you have installed the USB driver, see page 4.



Once the **Nano panel** is connected to the **laptop** you can retrieve the loop devices to the tool. Select the **Retrieve Loop Device icon** or select the **Retrieve Loop Devices** option from the *Tools* menu or Press the **F9** key to retrieve all the devices and their properties from the Nano panel into the tool.

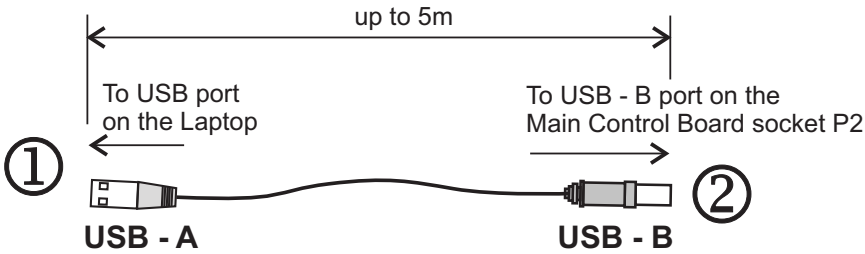
A view of the nano panel without the front cover



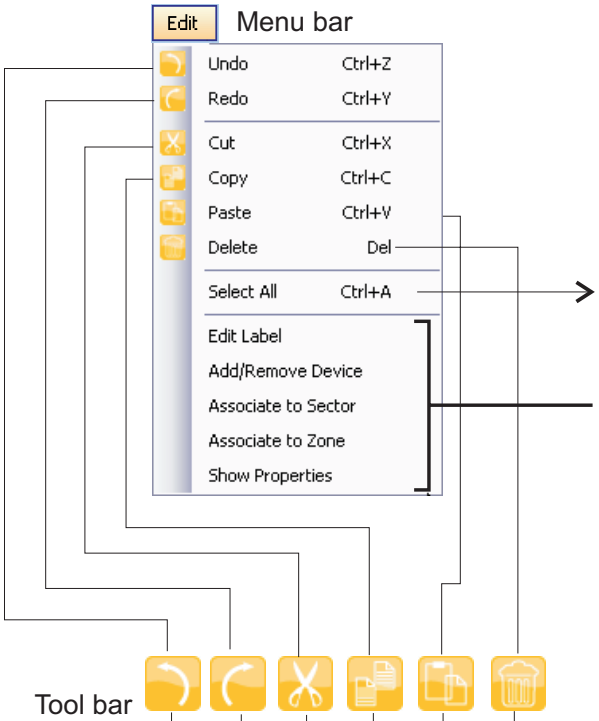


Connect the cable to USB port on Laptop and socket P2 on the Main Control Board

Ensure the Nano panel is powered up before connecting the Commissioning computer to the panel.



How to use the 'Edit' functions



Press **Ctrl + A** or by a click on **Select All** from the *Edit* menu will select all of the listed items of Devices, Zones or Sectors in one go.
You can individually select multiple items from different locations in the list by press and hold the **Ctrl** button and by clicking on the required items from the list.

These options will change depending on what is being edited. The example here is for 'Loop Device Settings' form.
A 'Zone Settings' and 'Sector Settings' forms will show:



Press **Ctrl + Y** or select the **Redo icon** or **Redo** from the *Edit* menu to reinstate the last deletion or 'Undo'. It is primarily active for use when editing Zone and Sector settings.

Press **Ctrl + Z** or select the **Undo icon** or **Undo** from the *Edit* menu to undo the last change. It is primarily active for use when editing Zone and Sector configurations.

Press **Ctrl + X** to delete the highlighted text when editing label to text.

Press **Ctrl + C** or select the **Copy** icon or **Copy** from the *Edit* menu after selecting an ITEM of Zone or Sector settings. **This will ONLY copy the configuration.**
Note the associated devices are not copied.

Press **Ctrl + V** or **Paste icon** or **Paste** from the *Edit* menu to paste a copied ITEM of Zone or Sector settings to another Zone or Sector item. **Note the associated devices are not affected and will remain the same.**

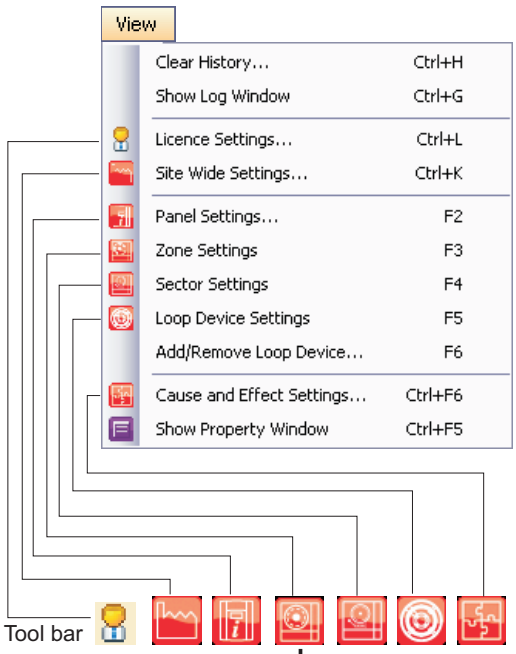
Select the **Delete icon** (the bin) or select **Del** from the *Edit* menu **to permanently delete a Zone or Sector that has NO ASSOCIATED DEVICES.**

Editing a label or text

When editing text or a label you can use the shortcut keys:
Ctrl + C to copy highlighted text
Ctrl + V to paste the copied text at a point
Ctrl + Z to Undo deletion
Ctrl + X to cut the highlighted text
You can also right click the mouse button to bring up a pop up of these options.

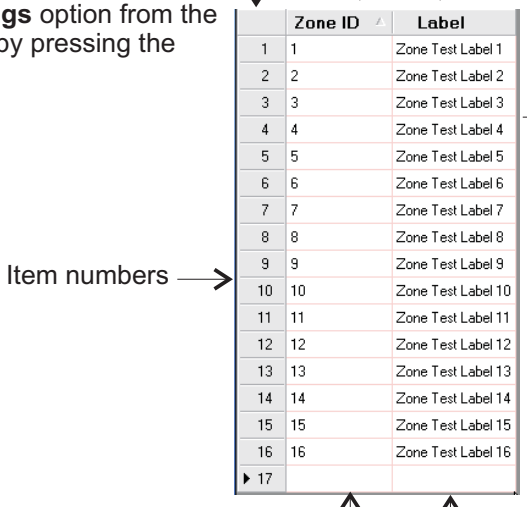
How to view, set and control 'Zones'

The zone options allow selection to view 'zone properties', edit zone labels and control the enablement and disablement of selected zone.



Select the **Zone Settings icon** or **Zone Settings** option from the *View* menu or by pressing the **F3** key.

The columns of *Zone settings* headed **Zone label** or **Zone ID** can be rearranged in an alphanumeric format by clicking on the respective *header* cell. This feature is useful if you need to view common data in a column without having to search all the items.



Item numbers



You can **enable/disable** selected zone of the system when the tool is connected to the panel.

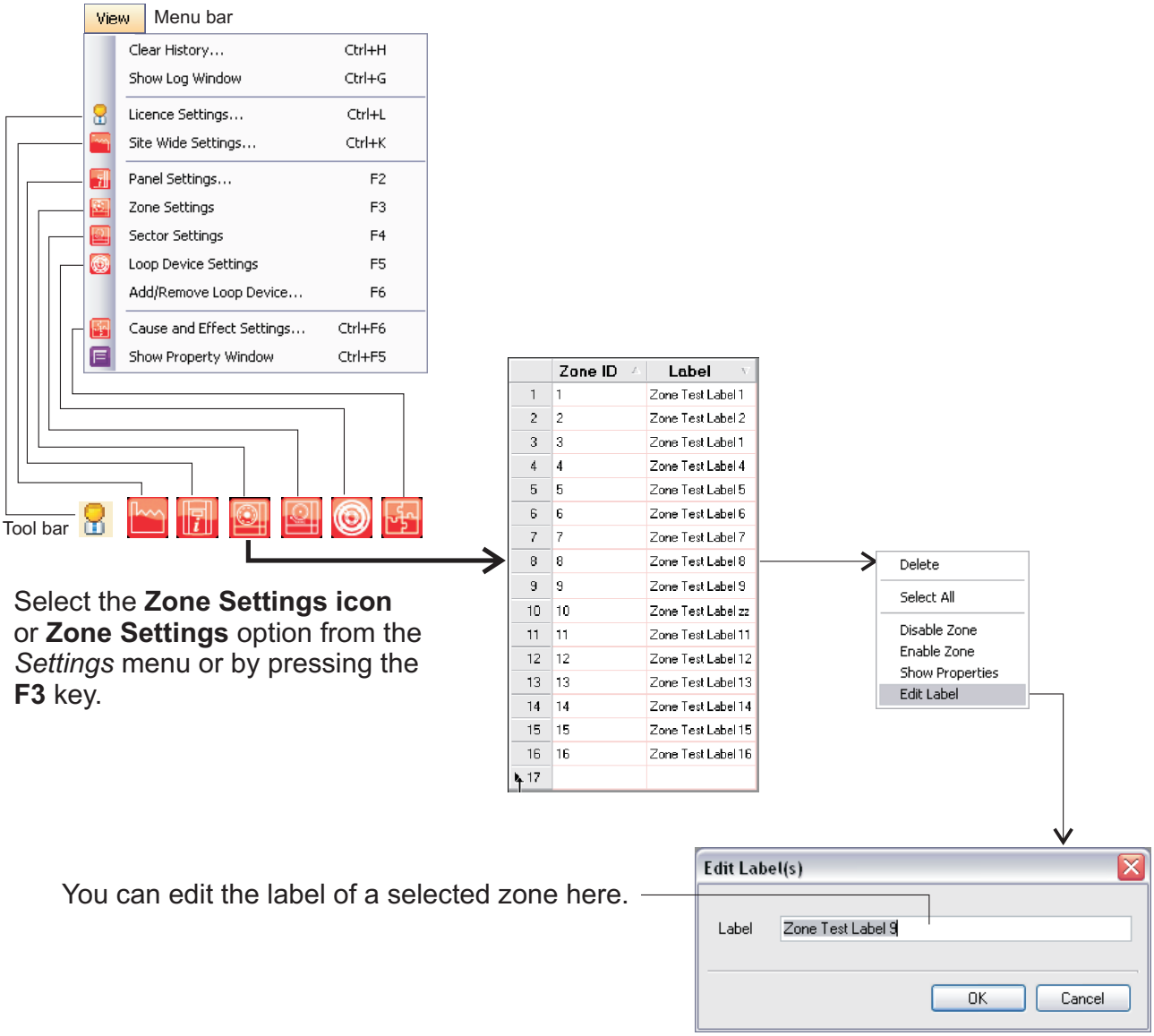
You can view and edit zone properties and zone label.

Zone identification number

The default Zone label is Zone Test Label ‘n’, where ‘n’ is normally the same number as the zone item number. The label given to a zone can be up to 32 characters in length.

How to edit a 'Zone' label

You can select a zone and edit the zone label, which can be up to 32 characters in length.

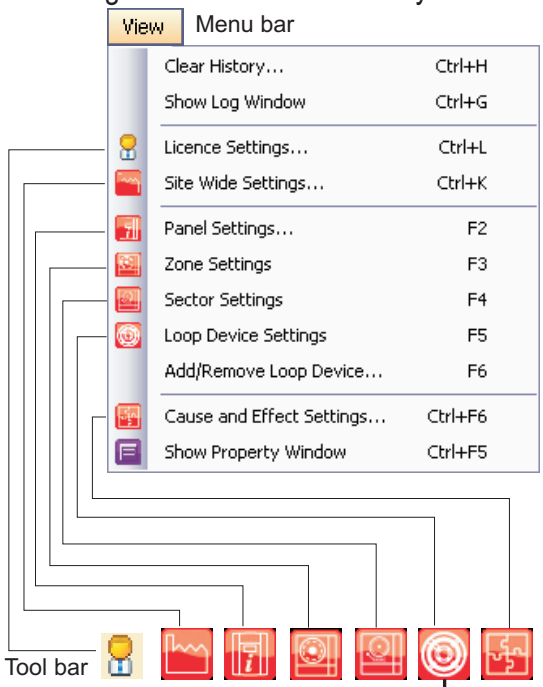


Select the **Zone Settings icon** or **Zone Settings** option from the *Settings* menu or by pressing the **F3** key.

You can edit the label of a selected zone here.

How to associate Devices to a Zone

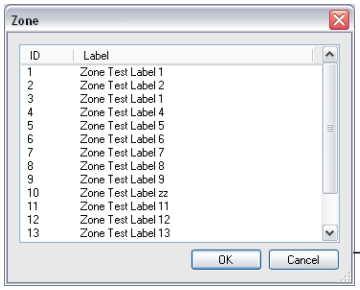
A loop device configuration involves the entry of device label and device association to a zone.



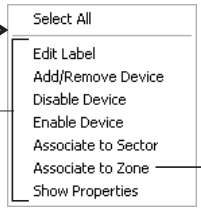
Select the **Loop Device Settings icon** or **Loop Device Settings** option from the *View* menu or by press the **F5** key.

The columns of *Device settings* headed **Position, Label, Device ID, Device Type, Zone ID or Sector ID can** be rearranged in an alphanumeric format by clicking on the respective *header* cell. This feature is useful if you need to view common data without having to search all the items.

You can associate the device to a zone from the zone list.



	Position	Label	Device ID	Device Type	Device Part Number	Zone ID	Sector ID
1	1	Loop Device 1 Tes: Lab	1	Beam	S434742	1	NA
2	2	Loop Device 2 Tes: Label	2	S Cubed	S2P/S3IP/S3SN-x	NA	2
3	3	Loop Device 3 Tes: Label	3	S Cubed	S2P/S3IP/S3VP-x	NA	2
4	4	Loop Device 4 Tes: Label	4	Manual Call Poin:	S434800	4	NA
5	5	Loop Device 5 Tes: Label	5	S Quad	S4710	1	NA
6	6	Loop Device 6 Tes: Label	6	S Quad	S4711	1	NA
7	7	Loop Device 7 Tes: Label	7	S Quad	S4711	1	NA
8	8	Loop Device 8 Tes: Label	8	S Quad	S4720-VO-ST	1	11
9	9	Loop Device	9	S Quad	S4710	1	NA
10	10	Loop Device 10 Test Label	10	S Quad	S4715	1	NA
11	11	Loop Device 11 Test Label	11	S Cubed	S2P/S3IP/S3SN-x	NA	1
12	12	Loop Device 12 Test Label	12	S Quad	S4711	1	NA
13	13	Loop Device 13 Test Label	13	Manual Call Poin:	S434800	5	NA
14	14	Loop Device 14 Test Label	14	Interface Unit	S434418	1	1
15	15	Loop Device 15 Test Label	15	Interface Unit	S434410	1	1
16	16	Loop Device 16 Test Label	16	Manual Call Poin:	S434800	1	NA
17	17	Loop Device 17 Test Label	17	S Quad	S4711	1	NA
18	18	Loop Device 18 Test Label	18	S Quad	S4711	1	NA
19	19	Loop Device 19 Test Label	19	T-Breaker	34701	NA	NA
20	20	Loop Device 20 Test Label	20	S Quad	S4711	1	NA
21	21	Loop Device 21 Test Label	21	S Quad	S4711	1	NA
22	22	Loop Device 22 Test Label	22	S Cubed	S3P/S3-SN-ST-xx	NA	2
23	23	Loop Device 23 Test Label	23	S Cubed	S3P/S3-VP-S~-xx	NA	2
24	24	Loop Device 24 Test Label	24	Manual Call Poin:	S434800	6	NA
25	25	Loop Device 25 Test Label	25	S Quad	S4711	1	NA
26	26	Loop Device 26 Test Label	26	S Quad	S4711	1	NA
27	27	Loop Device 27 Test Label	27	S Quad	S4711-ST	11	3
28	28	Loop Device 28 Test Label	28	S Quad	S4711-ST	12	4
29	29	Loop Device 29 Test Label	29	S Quad	S4711-ST	13	5



You can control device(s) enablement and disablement directly from the tool when it is connected to the control panel.

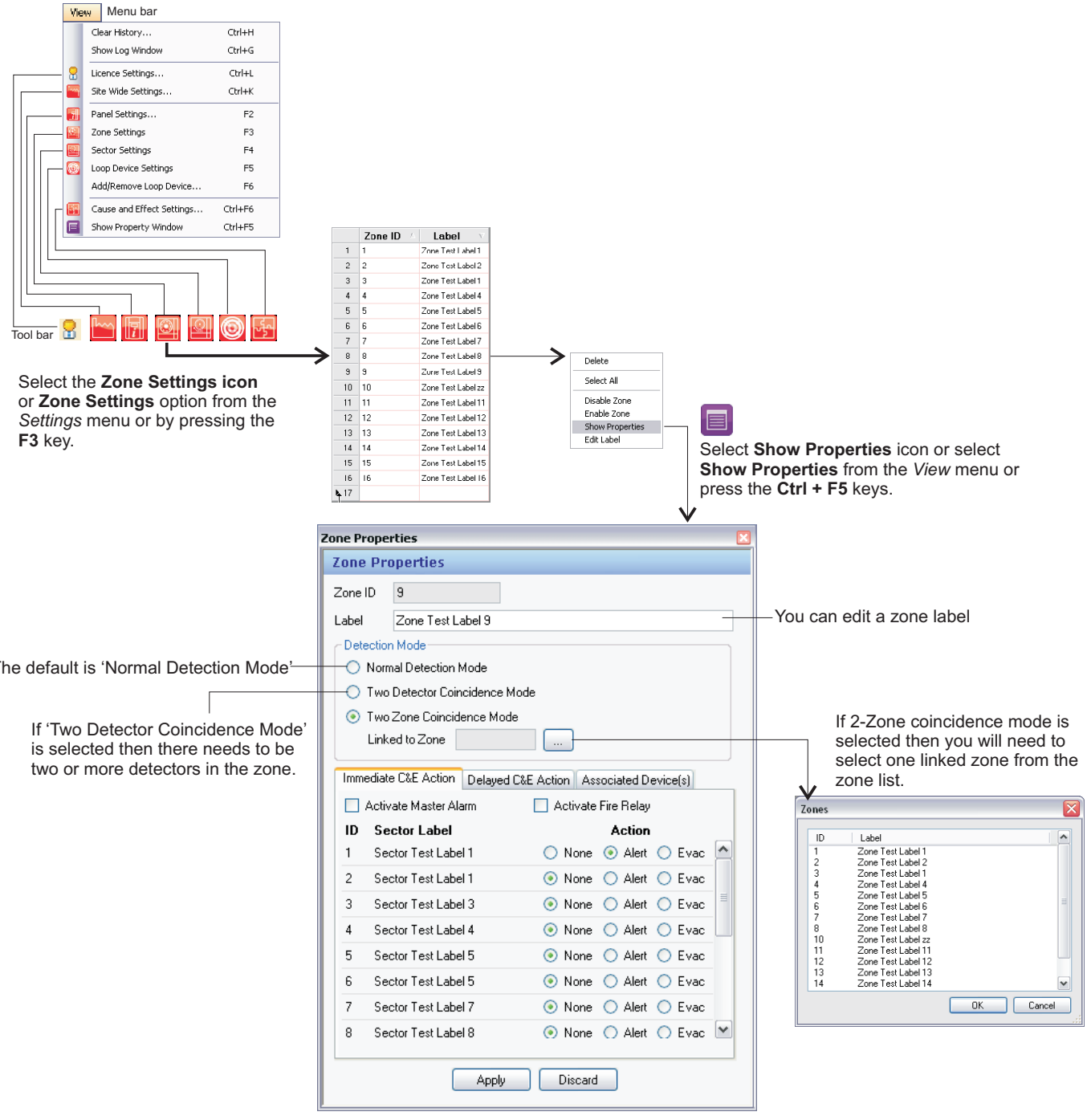
Where a device is removed from the system loop it can be taken out from the configuration using the 'Add/Remove Device' function.

You can select multiple devices from the list and associate the devices to a Zone.
You can also change a common device property.
To select a block of devices first click on the first item cell and then press and hold the **Shift** key and select the last item cell. Alternatively you can select random item cells by holding the **Ctrl** key and then click on each item cell one at a time.

A Device such as a S-Cube cannot belong to a zone and the Zone ID will not be applicable **NA**. In a similar manner a Device such as an S-Quad Sensor cannot belong to a Sector then the entry in Sector ID will not be applicable **NA**.

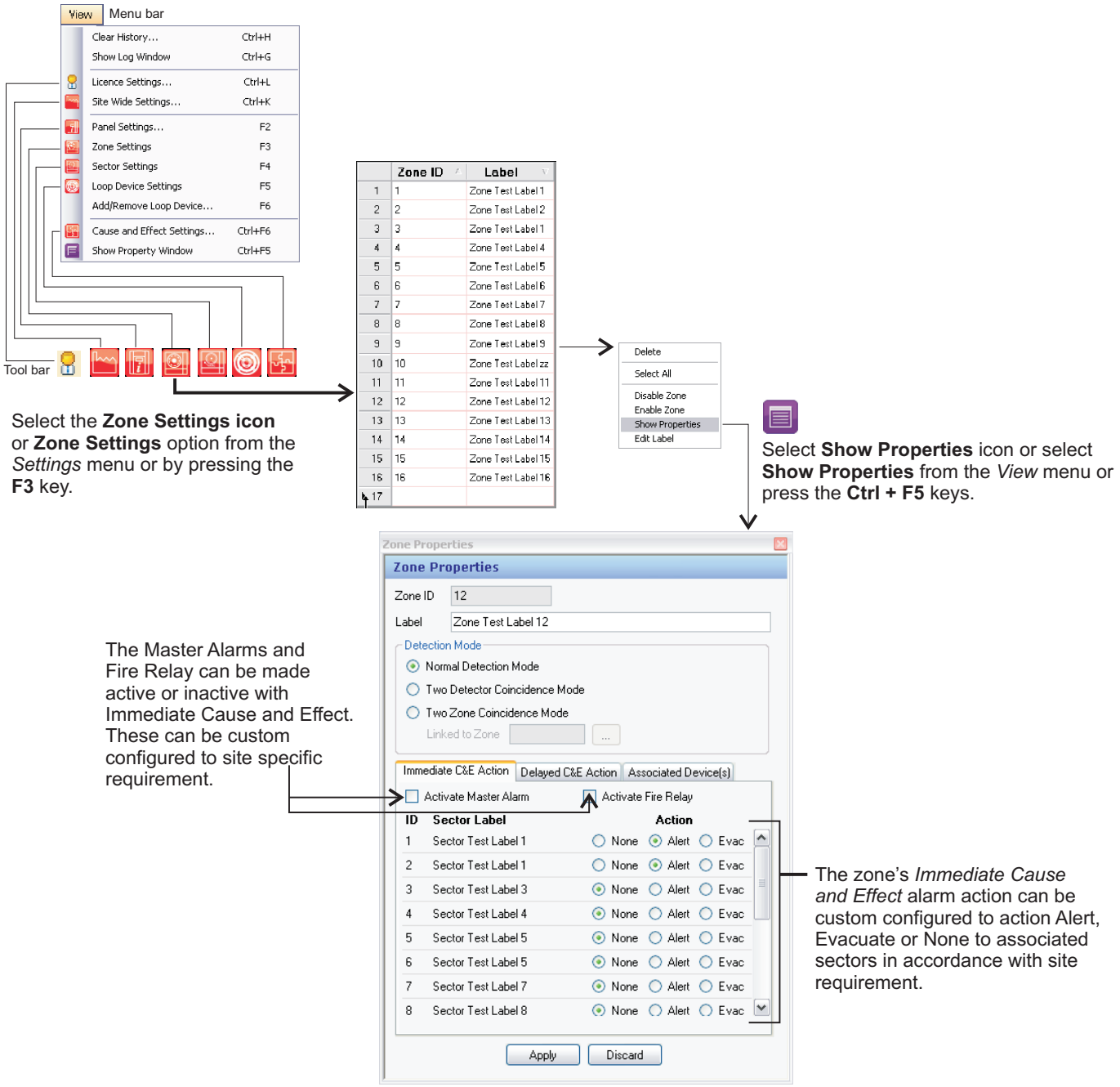
How to edit the 'Detection Mode' of a Zone

You can edit the required detection mode and select 'Normal detection Mode', Two Detector Coincidence Mode' or 'Two Zone Coincidence Mode'.



How to edit 'Immediate C&E Action' of a Zone

You can edit the required cause and effect action to sectors associated with a zone.



Select the **Zone Settings icon** or **Zone Settings** option from the *Settings* menu or by pressing the **F3** key.

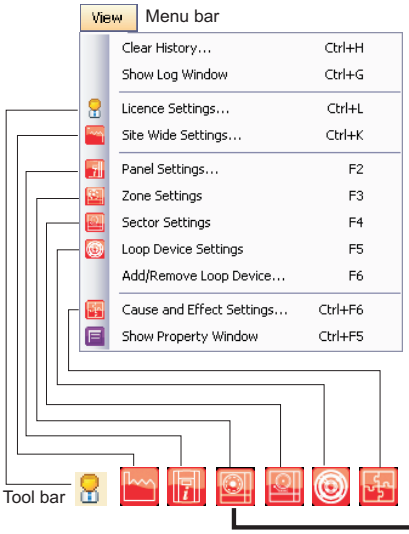
Select **Show Properties** icon or select **Show Properties** from the *View* menu or press the **Ctrl + F5** keys.

The Master Alarms and Fire Relay can be made active or inactive with Immediate Cause and Effect. These can be custom configured to site specific requirement.

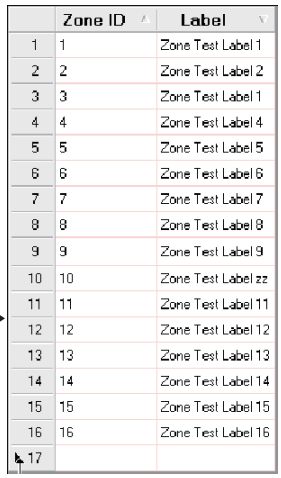
The zone's *Immediate Cause and Effect* alarm action can be custom configured to action Alert, Evacuate or None to associated sectors in accordance with site requirement.

How to edit 'Delayed C&E Action' of a Zone

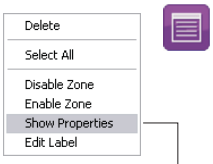
You can edit the required delayed cause and effect action to sectors associated with a zone.

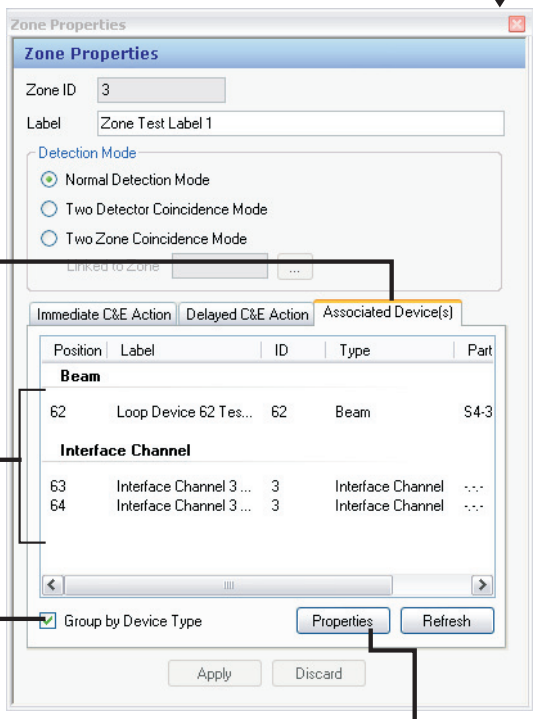


Select the **Zone Settings icon** or **Zone Settings** option from the *Settings* menu or by pressing the **F3** key.



Select **Show Properties** icon or select **Show Properties** from the *View* menu or press the **Ctrl + F5** keys.





Select Associated Device tab

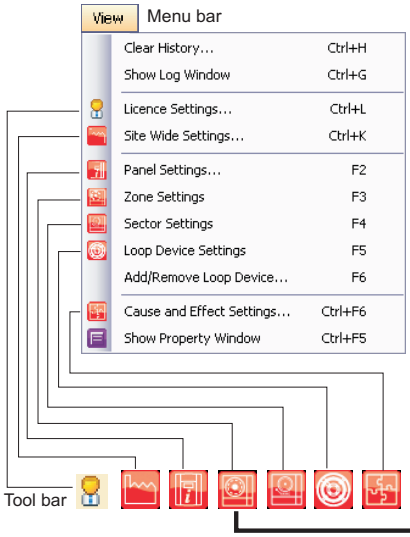
You can view all the devices associated with the zone.

You can all the devices associated with the zone by group, to do this check this box. You can list the devices by position on the loop, to do this just uncheck the box.

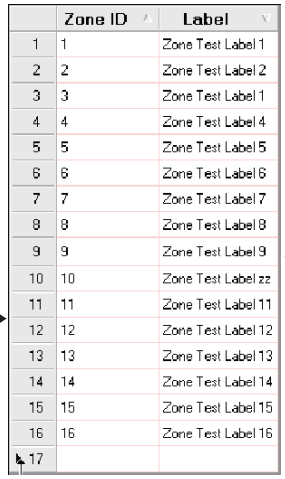
You can select a device from the list and view the device properties and edit it if required.

How to edit 'Associated Devices' of a Zone

You can view the devices associated with a zone and if necessary edit the device properties if necessary.



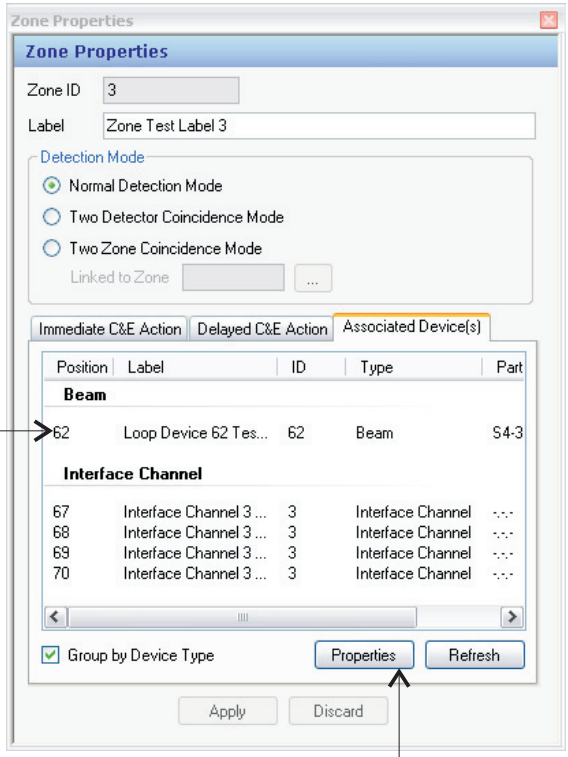
Select the **Zone Settings icon** or **Zone Settings** option from the *Settings* menu or by pressing the **F3** key.



	Zone ID	Label
1	1	Zone Test Label 1
2	2	Zone Test Label 2
3	3	Zone Test Label 1
4	4	Zone Test Label 4
5	5	Zone Test Label 5
6	6	Zone Test Label 6
7	7	Zone Test Label 7
8	8	Zone Test Label 8
9	9	Zone Test Label 9
10	10	Zone Test Label zz
11	11	Zone Test Label 11
12	12	Zone Test Label 12
13	13	Zone Test Label 13
14	14	Zone Test Label 14
15	15	Zone Test Label 15
16	16	Zone Test Label 16
17		



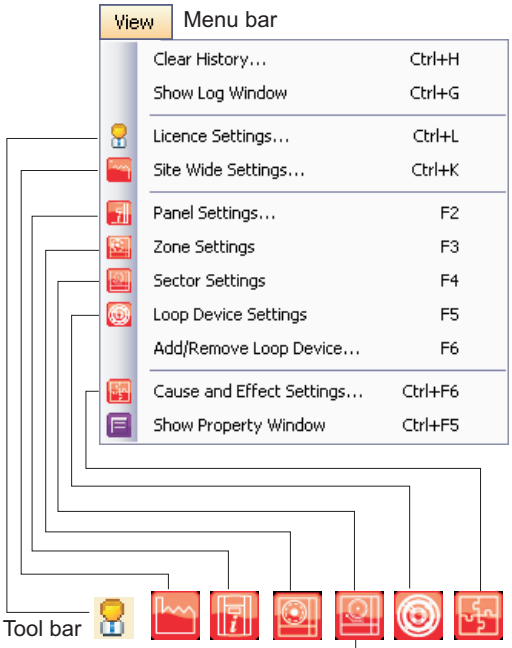
Select **Show Properties** icon or select **Show Properties** from the *View* menu or press the **Ctrl + F5** keys.



You can select an associated device from the list and view plus edit its properties if required.

How to view, set and control 'Sectors'

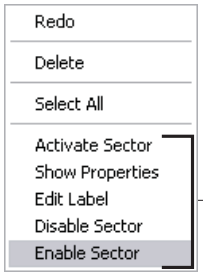
A sector option allow selection to view 'sector properties', edit sector labels, control the enablement and disablement of selected sector and sector activation control.



Select the **Sector Settings icon** or select **Sector Settings** option from the *View* menu or by pressing the **F4** key.

The columns of *Sector settings* headed **Sector label** or **Sector ID** can be rearranged in an alphanumeric format by clicking on the respective *header* cell. This feature is useful if you need to view common data without having to search all the items.

	Sector ID	Label
1	1	Sector Test Label 1
2	2	Sector Test Label 1
3	3	Sector Test Label 3
4	4	Sector Test Label 4
5	5	Sector Test Label 5
6	6	Sector Test Label 5
7	7	Sector Test Label 7
8	8	Sector Test Label 8
9	9	Sector Test Label 9
10	10	Sector Test Label 10
11	11	Sector Test Label 11
12	12	Sector Test Label 12
13	13	Sector Test Label 13
14	14	Sector Test Label 14
15	15	Sector Test Label 15
16	16	Sector Test Label 16
17		



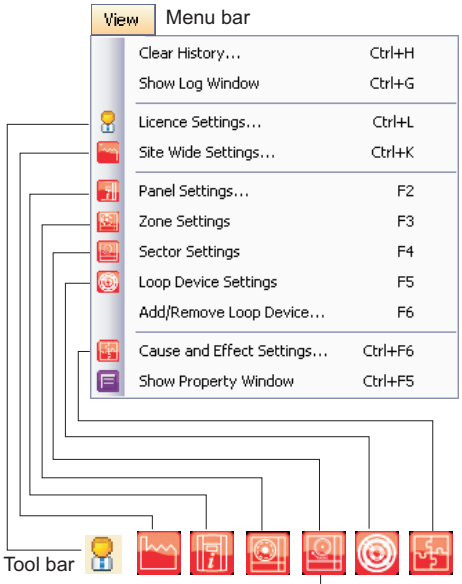
You can control a sector by activating it from the tool providing the tool is connected to the panel and also disable/enable any sector.

You can also edit a sector label and also view and edit sector properties.

The default Sector label is 'Sector Test Label n', where 'n' is normally the same number as the sector item number. The label given to a sector can be up to 32 characters in length.

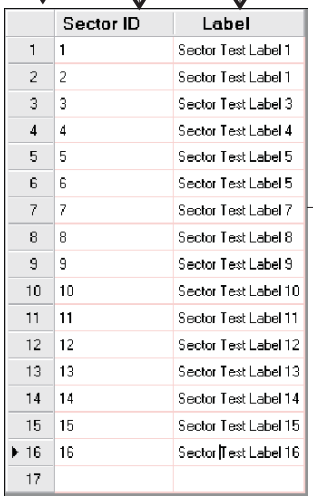
How to set sector for Alarm, Plant & Class Change

A sector configuration involves setting it as a 'Alarm Sector' or a 'Plant Sector'. The configuration also includes of sector linkage to Announcement of Class Change signal.



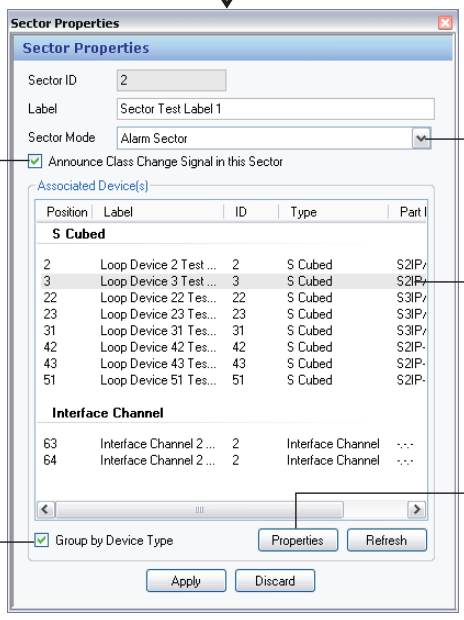
Select the **Sector Settings icon** or select **Sector Settings** option from the *View* menu or by pressing the **F4** key.

The columns of *Sector settings* headed **Sector label** or **Sector ID** can be rearranged in an alphanumeric format by clicking on the respective *header* cell. This feature is useful if you need to view common data without having to search all the items.





Select **Show Properties** icon or select **Properties** from the *View* menu or press the **Ctrl + F5** keys.





All Sectors are set as **Alarm** sectors and each can be reconfigured to operate as **Plant** sector.

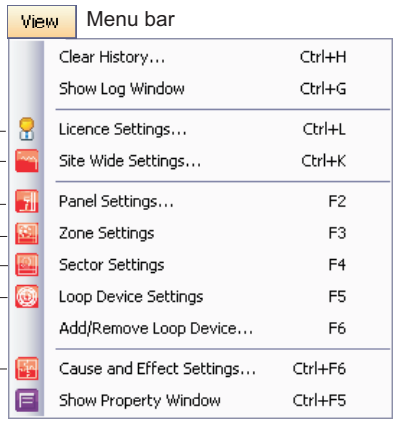
The selected sector can be linked to allow announcement of class change signal.

You can select a device associated with a sector and view plus edit its properties.

The devices associated with a sector can be listed in group type or as positioned on the loop.

How to associate 'Devices' to a Sector

A loop device configuration involves the entry of device label and device association to a sector.

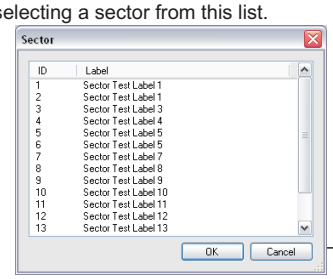


Tool bar

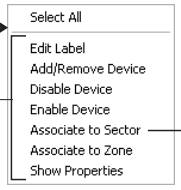
Select the **Loop Device Settings icon** or **Loop Device Settings** option from the *View* menu or by press the **F5** key.

The columns of *Device settings* headed **Position, Label, Device ID, Device Type, Zone ID or Sector ID ca**n be rearranged in an alphanumeric format by clicking on the respective *header* cell. This feature is useful if you need to view common data without having to search all the items.

You can associate the device to a sector by selecting a sector from this list.



Position	Label	Device ID	Device Type	Device Part Number	Zone ID	Sector ID
1	Loop Device 1 Test Lab	1	Beam	S4-34742	1	NA
2	2	Loop Device 2 Test Label	2	S Cubed	S3IP/S3IP/S3-SN-x	NA	2
3	3	Loop Device 3 Test Label	3	S Cubed	S3IP/S3IP/S3-VP-x	NA	2
4	4	Loop Device 4 Test Label	4	Manual Call Point	S4-34800	4	NA
5	5	Loop Device 5 Test Label	5	S Quad	S4-710	1	NA
6	6	Loop Device 6 Test Label	6	S Quad	S4-711	1	NA
7	7	Loop Device 7 Test Label	7	S Quad	S4-711	1	NA
0	0	Loop Device 0 Test Label	0	S Quad	S4-720-V0-ST	1	11
9	9	Loop Device	9	S Quad	S4-710	1	NA
10	10	Loop Device 10 Test Label	10	S Quad	S4-715	1	NA
11	11	Loop Device 11 Test Label	11	S Cubed	S3IP/S3IP/S3-SN-x	NA	1
12	12	Loop Device 12 Test Label	12	S Quad	S4-711	1	NA
13	13	Loop Device 13 Test Label	13	Manual Call Point	S4-34800	5	NA
14	14	Loop Device 14 Test Label	14	Interface Unit	S4-04410	1	1
15	15	Loop Device 15 Test Label	15	Interface Unit	S4-34110	1	1
16	16	Loop Device 16 Test Label	16	Manual Call Point	S4-34800	1	NA
17	17	Loop Device 17 Test Label	17	S Quad	S4-711	1	NA
18	18	Loop Device 18 Test Label	18	S Quad	S4-711	1	NA
19	19	Loop Device 19 Test Label	19	I-Breaker	S4-701	NA	NA
20	20	Loop Device 20 Test Label	20	S Quad	S4-711	1	NA
21	21	Loop Device 21 Test Label	21	S Quad	S4-711	1	NA
22	22	Loop Device 22 Test Label	22	S Cubed	S4IP/S4-N-S1-xx	NA	2
23	23	Loop Device 23 Test Label	23	S Cubed	S3IP/S3-VF-ST-xx	NA	2
24	24	Loop Device 24 Test Label	24	Manual Call Point	S4-34800	6	NA
25	25	Loop Device 25 Test Label	25	S Quad	S4-711	1	NA
26	26	Loop Device 26 Test Label	26	S Quad	S4-711	1	NA
27	27	Loop Device 27 Test Label	27	S Quad	S4-711-ST	11	3
28	28	Loop Device 28 Test Label	28	S Quad	S4-711-ST	12	4
29	29	Loop Device 29 Test Label	29	S Quad	S4-711-ST	13	5



You can control device(s) enablement and disablement directly from the tool when it is connected to the control panel.

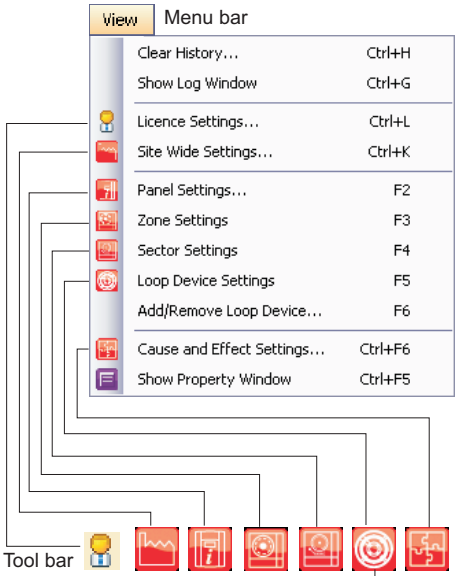
Where a device is removed from the system loop it can be taken out from the configuration using the 'Add/Remove Device' function.

You can select multiple devices from the list and associate the devices to a Zone.
You can also change a common device property.
To select a block of devices first click on the first item cell and then press and hold the **Shift** key and select the last item cell. Alternatively you can select random item cells by holding the **Ctrl** key and then click on each item cell one at a time.

A Device such as a Sounder/Strobe cannot belong to a zone and the Zone ID will not be applicable **NA**. In a similar manner a Device such as an S-Quad Sensor cannot belong to a Sector then the entry in Sector ID will not be applicable **NA**.

How to configure 'Device settings'

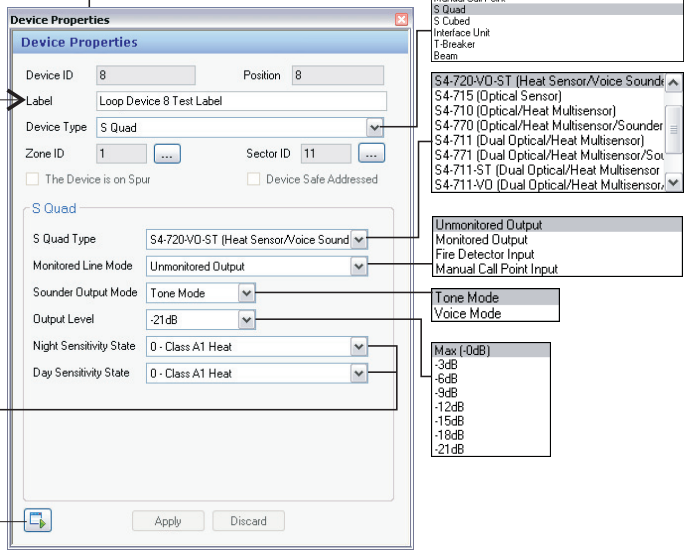
A device like the S-Quad sensor will require configuration of its monitored line mode, Day and Night mode sensitivity states, output mode and individual sound output level setting. An interface device will require entry of channel label, mode and function. Each device type will have its own individual device settings.

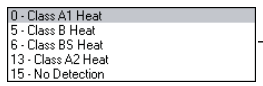


Select the **Loop Device Settings icon** or **Loop D evice Settings** option from the *View* menu or by press the **F5** key.

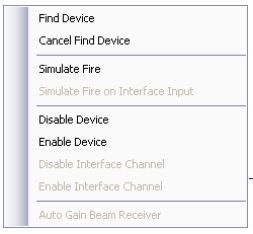
	Position	Label	Device ID	Device Type	Device Part Number	Zone ID	Sector ID
1	1	Loop Device 1 Test Lab	1	Beam	S4-34742	1	NA
2	2	Loop Device 2 Test Label	2	S Cubed	S2IP/S3IP/S3-SN-x	NA	2
3	3	Loop Device 3 Test Label	3	S Cubed	S2IP/S3IP/S3-VP-x	NA	2
4	4	Loop Device 4 Test Label	4	Manual Call Point	S4-34800	4	NA
5	5	Loop Device 5 Test Label	5	S Quad	S4-710	1	NA
6	6	Loop Device 6 Test Label	6	S Quad	S4-711	1	NA
7	7	Loop Device 7 Test Label	7	S Quad	S4-711	1	NA
8	8	Loop Device 8 Test Label	8	S Quad	S4-720-VO-ST	1	11
9	9	Loop Device	9	S Quad	S4-710	1	NA
10	10	Loop Device 10 Test Label	10	S Quad	S4-715	1	NA
11	11	Loop Device 11 Test Label	11	S Cubed	S2IP/S3IP/S3-SN-x	NA	1
12	12	Loop Device 12 Test Label	12	S Quad	S4-711	1	NA
13	13	Loop Device 13 Test Label	13	Manual Call Point	S4-34800	5	NA
14	14	Loop Device 14 Test Label	14	Interface Unit	S4-34418	1	1
15	15	Loop Device 15 Test Label	15	Interface Unit	S4-34410	1	1
16	16	Loop Device 16 Test Label	16	Manual Call Point	S4-34800	1	NA
17	17	Loop Device 17 Test Label	17	S Quad	S4-711	1	NA
18	18	Loop Device 18 Test Label	18	S Quad	S4-711	1	NA
19	19	Loop Device 19 Test Label	19	T-Breaker	34701	NA	NA
20	20	Loop Device 20 Test Label	20	S Quad	S4-711	1	NA
21	21	Loop Device 21 Test Label	21	S Quad	S4-711	1	NA
22	22	Loop Device 22 Test Label	22	S Cubed	S3IP/S3-SN-ST-xx	NA	2
23	23	Loop Device 23 Test Label	23	S Cubed	S3IP/S3-VP-ST-xx	NA	2
24	24	Loop Device 24 Test Label	24	Manual Call Point	S4-34800	6	NA
25	25	Loop Device 25 Test Label	25	S Quad	S4-711	1	NA
26	26	Loop Device 26 Test Label	26	S Quad	S4-711	1	NA
27	27	Loop Device 27 Test Label	27	S Quad	S4-711-ST	11	3
28	28	Loop Device 28 Test Label	28	S Quad	S4-711-ST	12	4
29	29	Loop Device 29 Test Label	29	S Quad	S4-711-ST	13	5

You can edit a device label which can be up to 32 characters in length.



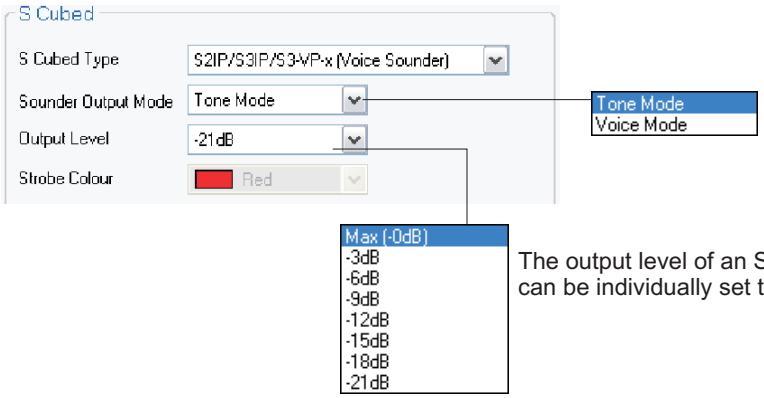


Only the applicable sensor states are displayed for selection. The states displayed are different for different Sensors. The default state is state 0. You can select the required state for Day mode and Night mode.



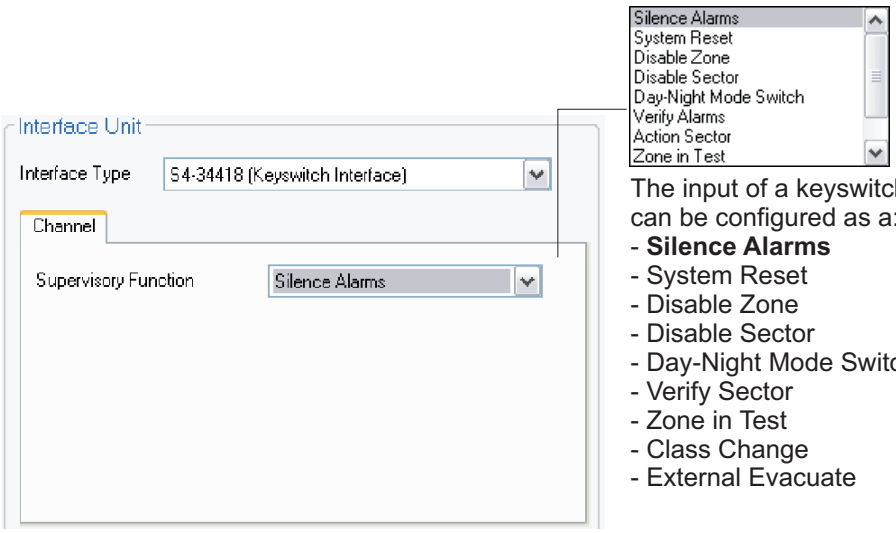
You can directly control the device from the tool providing it is connected to the control panel. The control functions in for this device include Simulate fire, Find Device and Enable/Disable the device.

Voice Sounder S-Cube settings



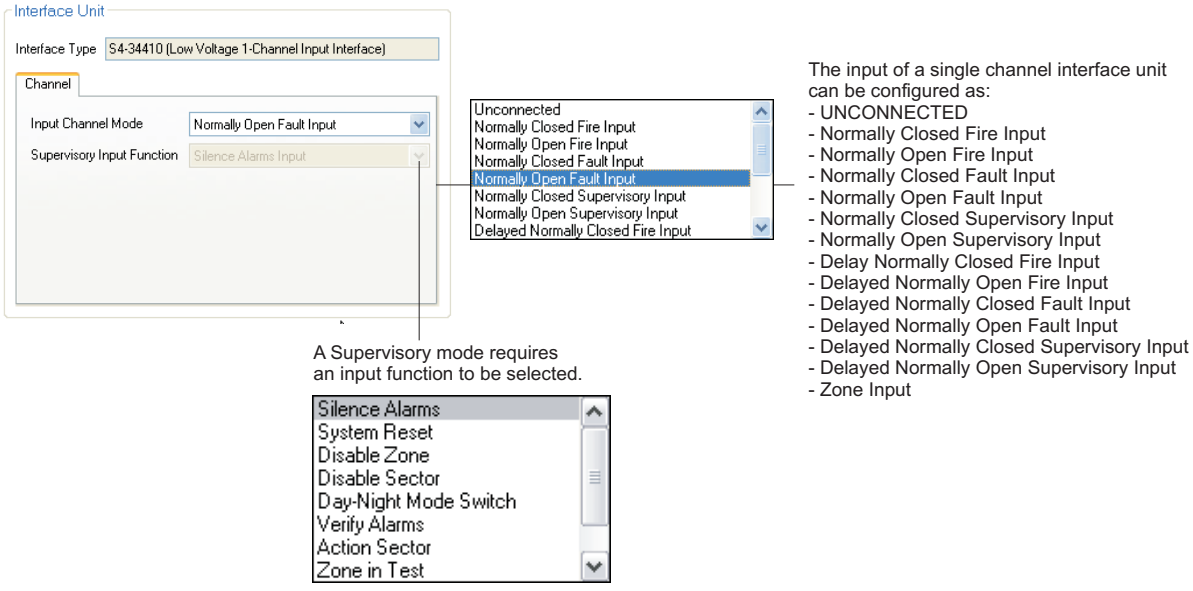
The output level of an S Cubed device voice/sounder can be individually set to a required value.

Keyswitch Interface settings



The input of a keyswitch interface unit can be configured as a:
- **Silence Alarms**
- System Reset
- Disable Zone
- Disable Sector
- Day-Night Mode Switch
- Verify Sector
- Zone in Test
- Class Change
- External Evacuate

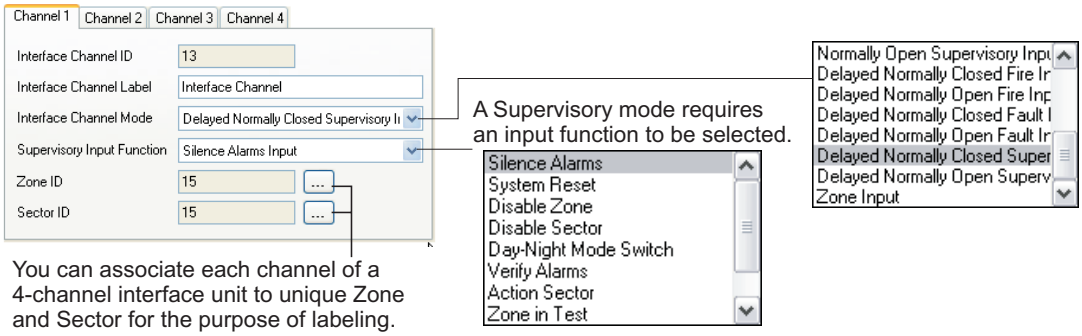
1 Channel Interface settings



The input of a single channel interface unit can be configured as:
- UNCONNECTED
- Normally Closed Fire Input
- Normally Open Fire Input
- Normally Closed Fault Input
- Normally Open Fault Input
- Normally Closed Supervisory Input
- Normally Open Supervisory Input
- Delay Normally Closed Fire Input
- Delayed Normally Open Fire Input
- Delayed Normally Closed Fault Input
- Delayed Normally Open Fault Input
- Delayed Normally Closed Supervisory Input
- Delayed Normally Open Supervisory Input
- Zone Input

A Supervisory mode requires an input function to be selected.

4 Channel Interface settings

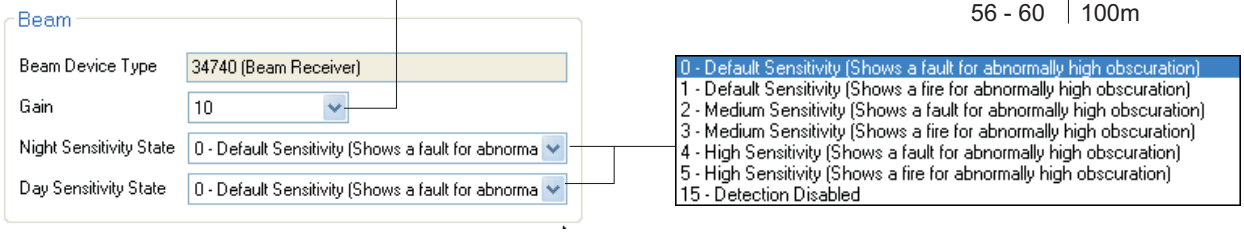


You can associate each channel of a 4-channel interface unit to unique Zone and Sector for the purpose of labeling.

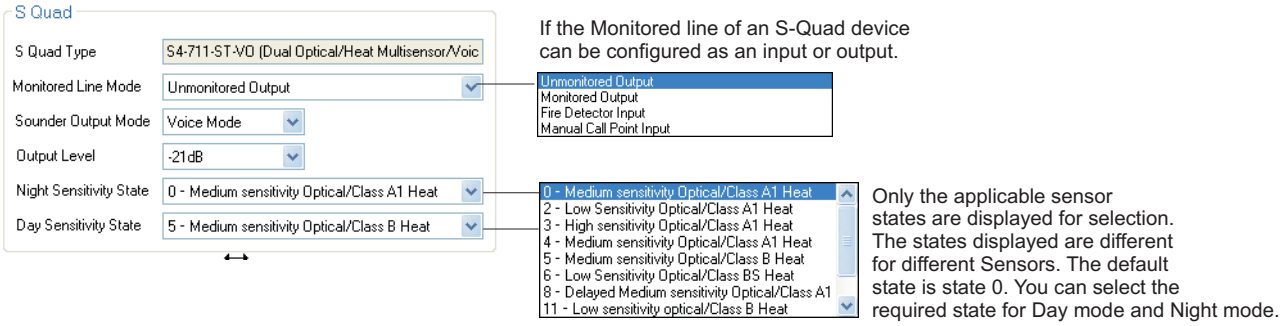
Beam Sensor settings

If you know the path length of a Beam sensor pair then you can set the gain at the Beam receiver, the gain range is between 0 to 63.

Gain value	Path length
6 - 9	2m
29 - 33	10m
56 - 60	100m

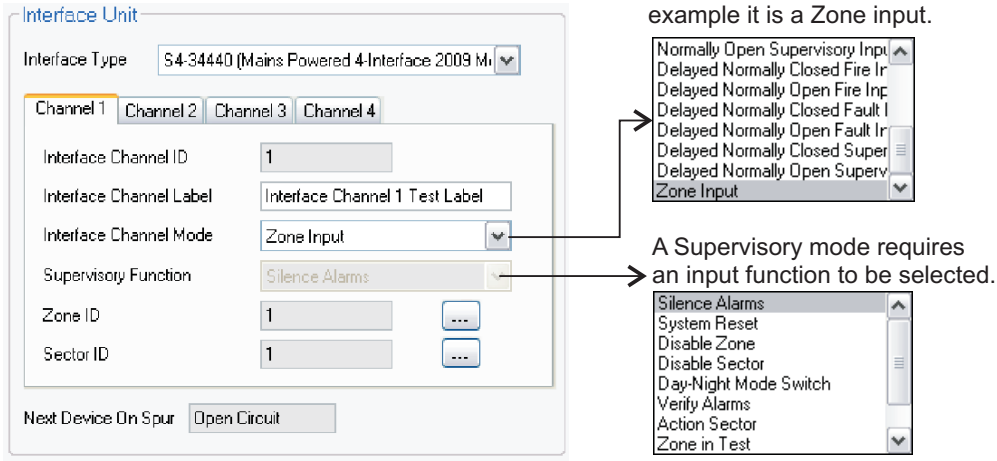


S-Quad sensor settings



S4 Mains powered interface settings

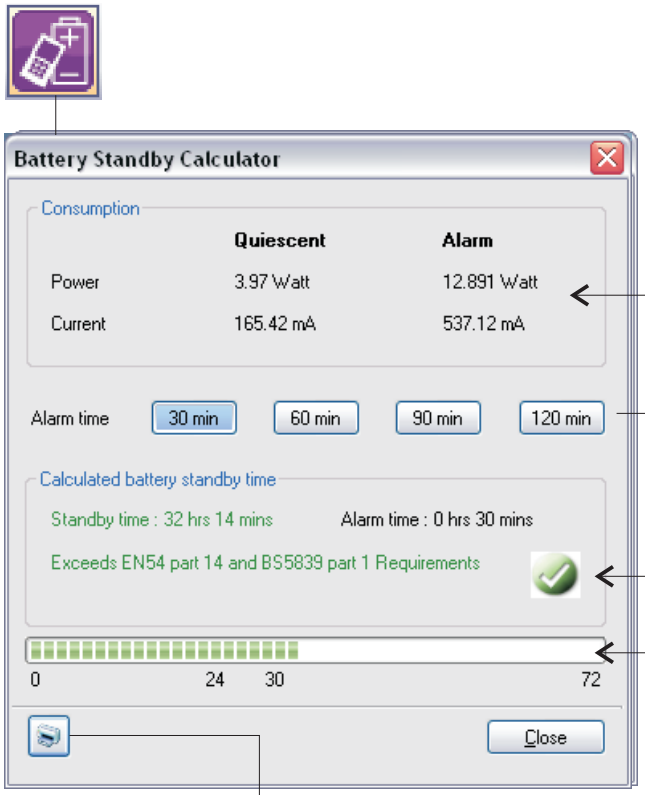
Each channel of a mains powered interface unit must be configured:



How to check the Battery Standby Calculation

At any time you can check the battery standby time along with the alarm time by looking at the bottom left of the Commissioning tool page.

As an alternative you can click on the battery standby calculator icon and view the standby and if required adjust the alarm duration to see what affect this has on the standby.

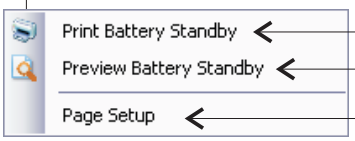


The power and current taken by the system under quiescent and alarm conditions are displayed here

If necessary make changes to the alarm time, the options are: 30 minutes, 60 minutes, 90 minutes or 120 minutes.

An  here indicates it fails to meet EN part 14 but meets BS5839 Part 1 requirements.

The achievable standby duration is indicated here.



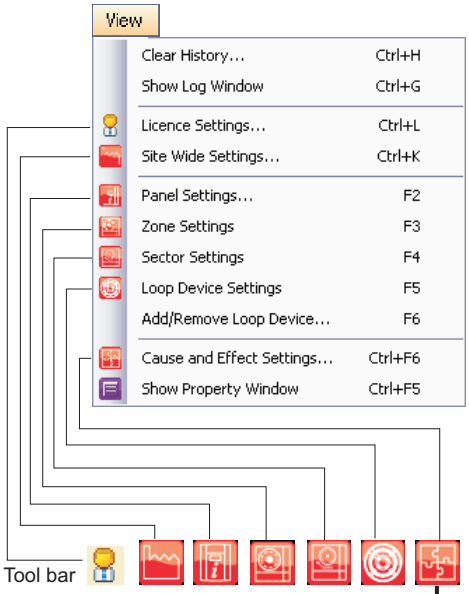
Select this option to print the Standby

Select this option to preview the print

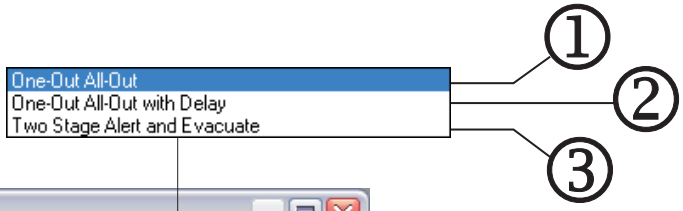
You can select the printer and print the information.

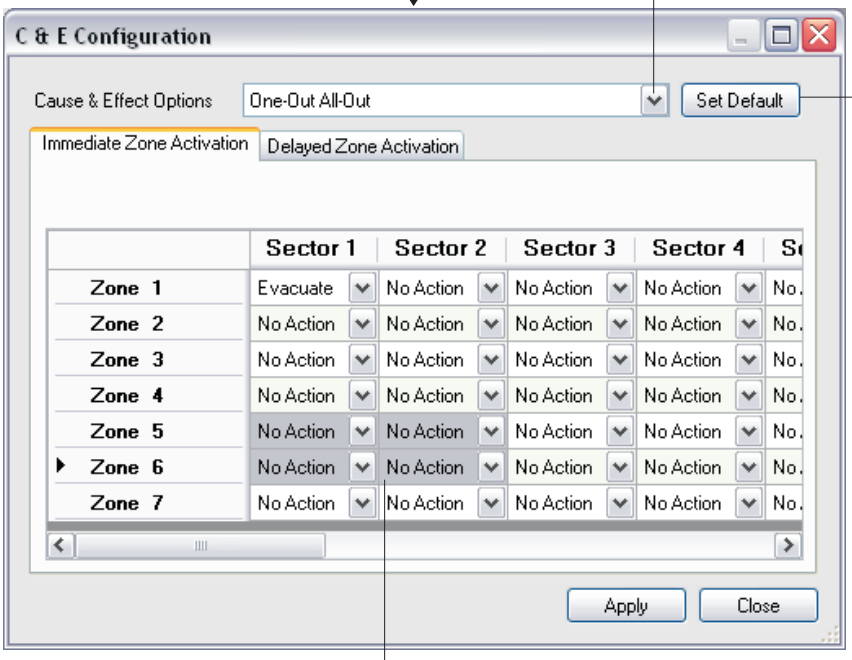
How to configure the global 'Cause and Effect'

The immediate and delayed global Cause and Effect settings are required to be configured. The options available include One-Out All-Out, One-Out All-Out with delay or Two stage Alert and Evacuate. These settings are required to ensure zone alarm actions on sectors are configured to site requirements.

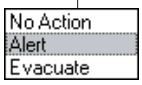


Select the **C&E Settings icon** or **C&E Settings** option from the *View* menu or by pressing the **Ctrl F6** key.





By clicking on the **Set Default** button you can set the Sector alarm action to the factory default settings.



You can select a block of cells by clicking on the first cell followed by press and hold on the Shift key and a then click on the last cell.
To select random multiple cells press and hold the **Ctrl** key and then click on each cell one at a time. Following the selection right click the mouse button and select a common action: No action, Alert or Evacuate.

① One-Out All-Out (factory default settings)

Immediate Zone Activation

	Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6	Sector 7	Sector 8	Activate Master Alarm	Activate Fire Relay
Zone 1	Evacuate	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☑	☐
Zone 2	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 3	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 4	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 5	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 6	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 7	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐

Delayed Zone Activation

Initial Delay Minute(s) 0 Second(s) 30 Day Mode Delay Minute(s) 5 Second(s) 0

	Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6	Sector 7	Sector 8	Activate Master Alarm	Activate Fire Relay
Zone 1	Evacuate	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☑	☐
Zone 2	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 3	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 4	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 5	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 6	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐
Zone 7	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☐

② One-Out All-Out with Delay (factory default settings)

Immediate Zone Activation

	Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6	Sector 7	Sector 8	Activate Master Alarm	Activate Fire Relay
Zone 1	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑
Zone 2	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑
Zone 3	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑
Zone 4	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑
Zone 5	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑
Zone 6	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑
Zone 7	No Action	No Action	No Action	No Action	No Action	No Action	No Action	No Action	☐	☑

Delayed Zone Activation

Initial Delay Minute(s) 0 Second(s) 30 Day Mode Delay Minute(s) 5 Second(s) 0

	Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6	Sector 7	Sector 8	Activate Master Alarm	Activate Fire Relay
Zone 1	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑
Zone 2	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑
Zone 3	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑
Zone 4	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑
Zone 5	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑
Zone 6	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑
Zone 7	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☑

③ Two Stage Alert and Evacuate (factory default settings)

Immediate Zone Activation

	Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6	Sector 7	Sector 8	Activate Master Alarm	Activate Fire Relay
Zone 1	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑
Zone 2	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑
Zone 3	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑
Zone 4	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑
Zone 5	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑
Zone 6	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑
Zone 7	Alert	Alert	Alert	Alert	Alert	Alert	Alert	Alert	☐	☑

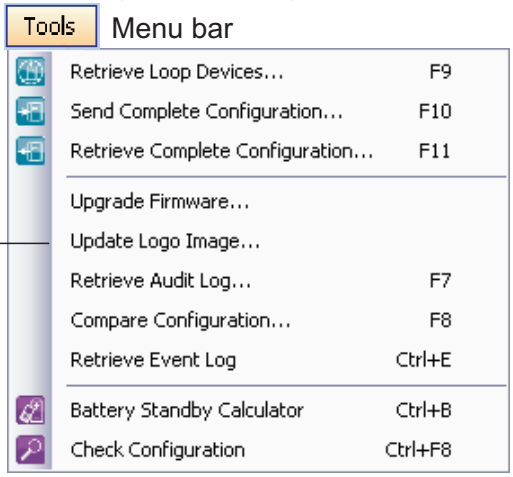
Delayed Zone Activation

Initial Delay Minute(s) 0 Second(s) 30 Day Mode Delay Minute(s) 5 Second(s) 0

	Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6	Sector 7	Sector 8	Activate Master Alarm	Activate Fire Relay
Zone 1	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐
Zone 2	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐
Zone 3	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐
Zone 4	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐
Zone 5	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐
Zone 6	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐
Zone 7	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	Evacuate	☑	☐

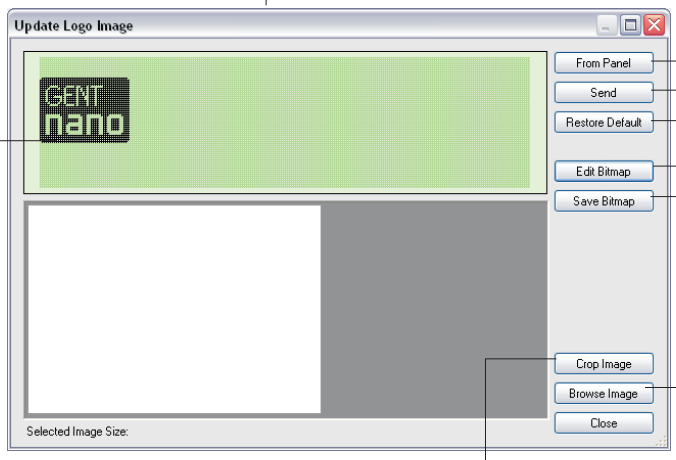
How to 'Update logo' file

The logo displayed on the panel can be customised using the logo editor in the tool. It is important to note the area reserved for the logo on the panel display is small, so a custom logo must be small, therefore any intricate shape may not display well and may need to be simplified using the logo editor in the tool.



Ensure the tool is connected to the panel.

Select the **Update Logo Image** option from the *Tools* menu.



It is possible to retrieve the logo from the panel for viewing and editing in this tool.

Once a logo is created and ready you can send it to the pane for display during normal condition.

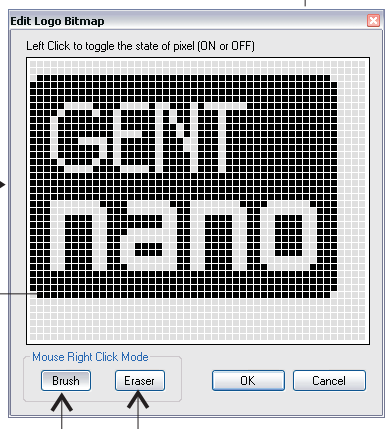
By clicking on the Restore Default button you revert to the original logo of the panel.

Once the logo has been edited you must save the file before sending it to the panel.

You can import a **.jpg .bmp, .gif** or **.wmf** file into the tool for conversion into a logo.

This portion of the window shows how the logo will appear on the panel display. The Image size is restricted to 40 (height) by 48 (width) pixels.

If the imported image displayed is too large then you can crop the image so that it appears satisfactorily in a 40 by 48 pixels canvas. If the image is not clear it can be edited using the image editor.

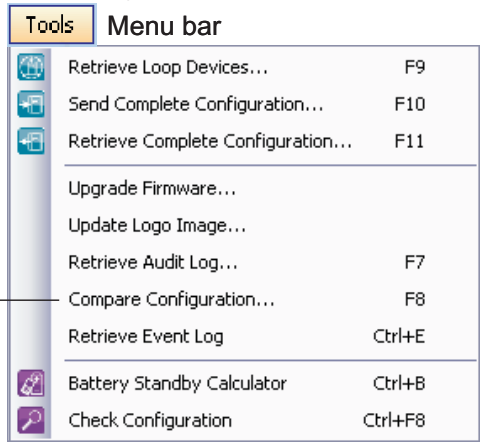


To edit an imported image or to create a new image you can goto a pixel location and click to switch **On** the pixel. You can erase and switch **Off** the pixel by clicking the on the location again.

Free hand editing:
Select the **Brush** or **Erase** button using by left mouse button and then free hand draw or erase pixels in the canvas by press and hold on the right mouse button.

How to compare configurations

The 'Compare configuration' feature is primarily used to compare the offline configuration at the Nano Commissioning tool with that of the connected Nano panel based system.

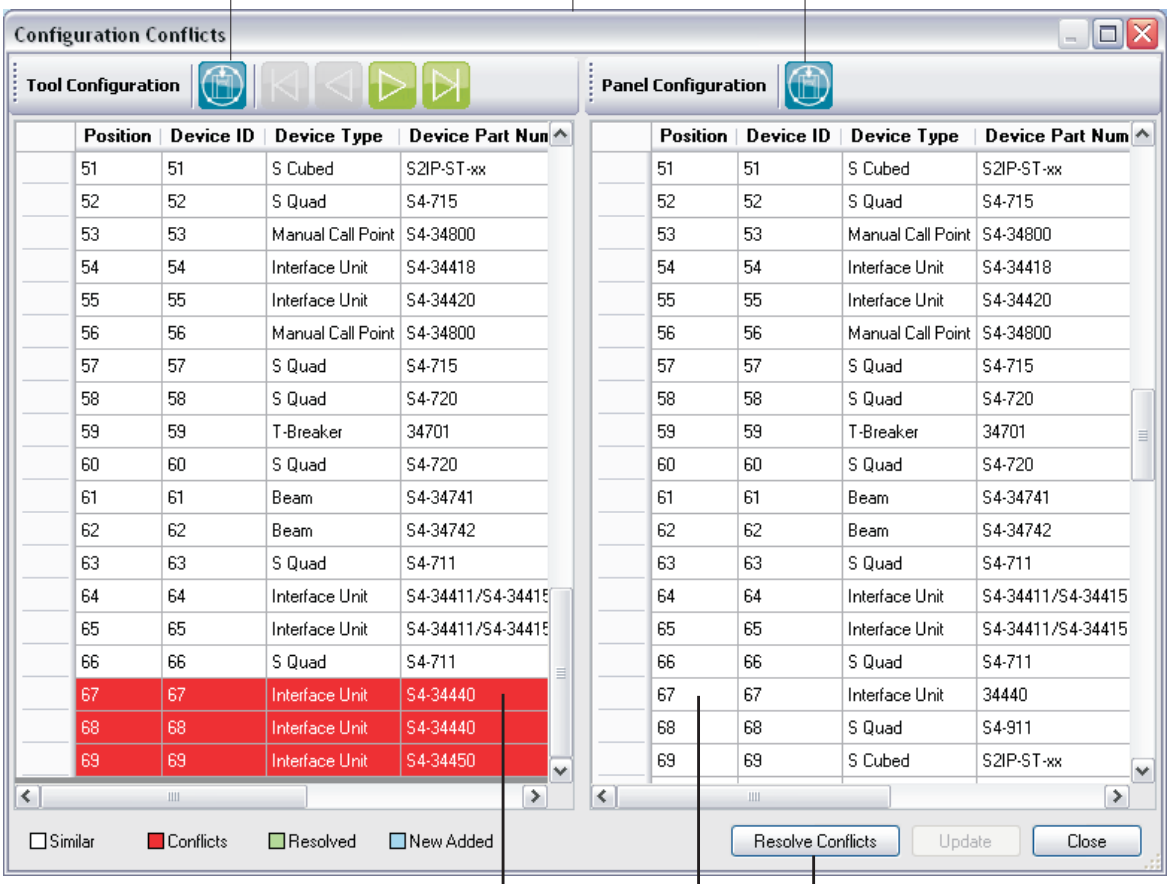


Ensure the tool is connected to the panel.

Select the **Compare Configuration..** option from the *Tools* menu or press F8 button.

Retrieve Tool Configuration

Retrieve Panel Configuration

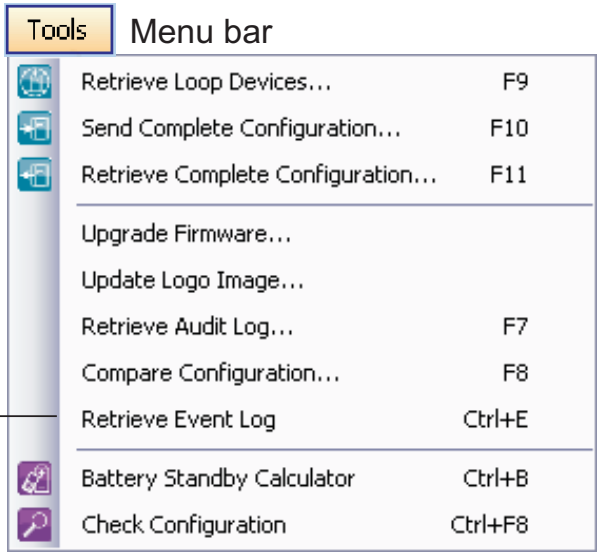


You can resolve any conflict displayed by either changing the configuration at the panel or at the Commissioning tool. In the above example the Configuration Conflicts are at the panel and tool, with different devices on the loop at locations 67, 68 and 69 (highlighted in red).

To resolve the conflicts at the tool you can click on Resolve Conflicts.

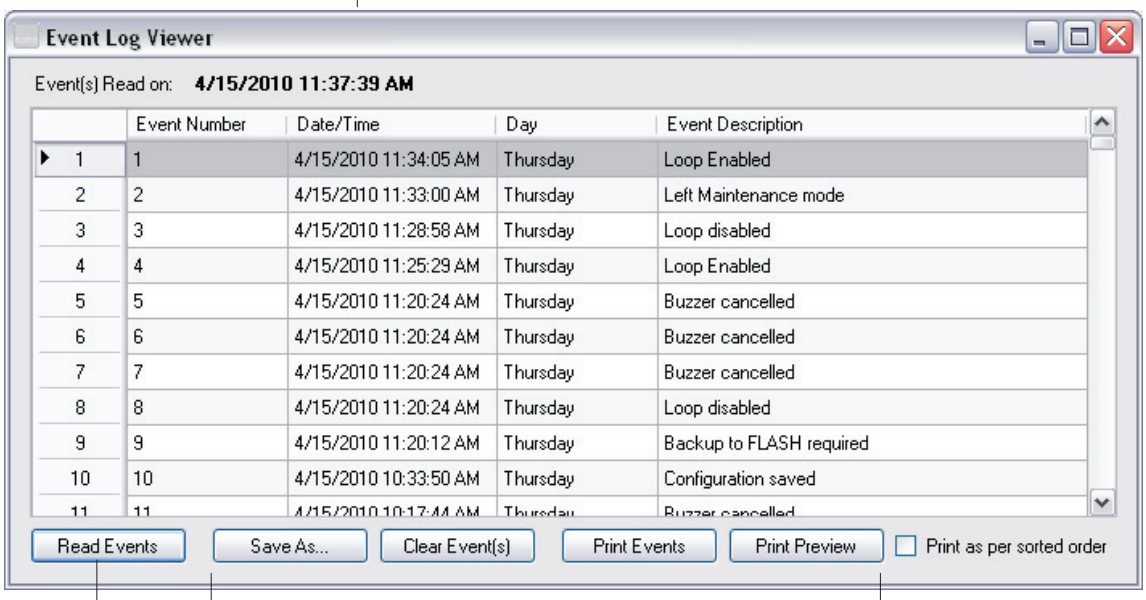
How to retrieve Historic Events log

Using the 'Retrieve Historic Events log' feature you can retrieve all the historic events log at the Nano panel to the Nano Commissioning tool.



Ensure the tool is connected to the panel.

Select the **Retrieve Events Log..** option from the *Tools* menu.



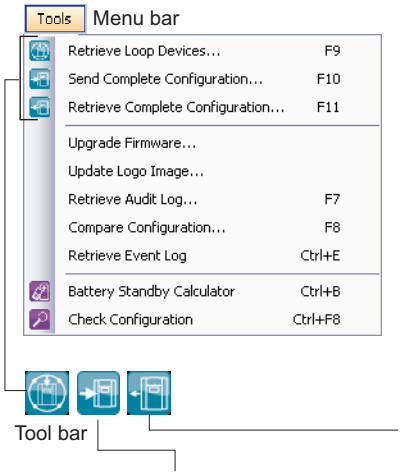
Select the **Read Events** to retrieve the historic events from the panel.

You can review the historic events list, **Save As** to a file, **Print preview** and **Print** the events.

How to 'Transmit' or 'Retrieve' Configurations

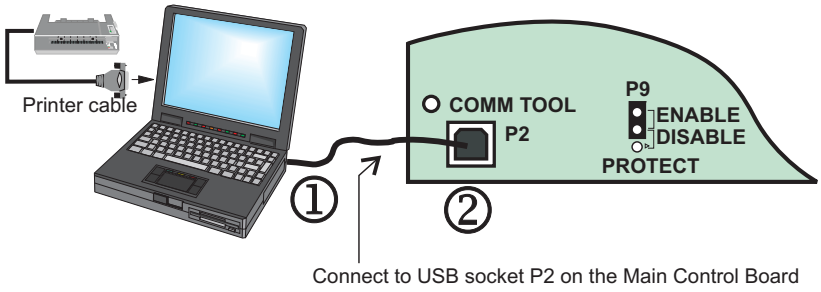
Once the configuration is complete you can send it to the Nano panel and then test the Nano panel based system. If you are new to a site having a Nano panel based system then you could retrieve the complete system configuration from the panel to the tool.

After transmission of the configuration to the Nano panel the Fire Detection and Alarm system must to be tested to ensure it functions correctly and meets site and project requirements.

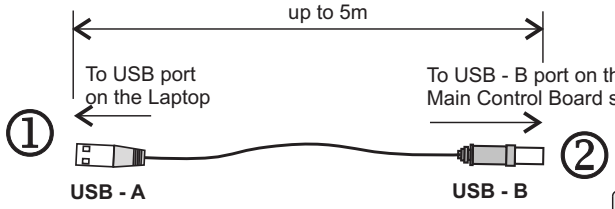


Where there is a fully configured Nano system and you need its configuration then you can retrieve the complete configuration from the Nano panel. The retrieved configuration must be saved to a new project file. Select the **Retrieve Complete Configuration** icon or select **Retrieve Complete Configuration** from the *Tools* menu or press the **F11** key.

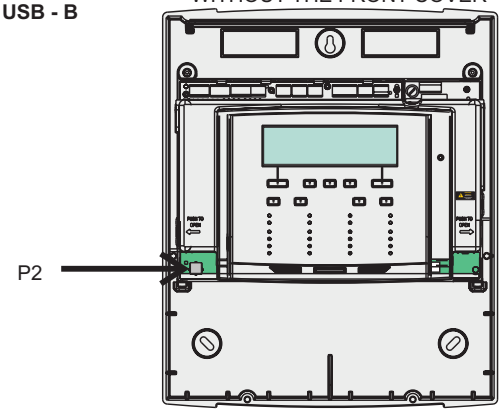
Once the Nano system is fully configured at the Nano Commissioning tool, you can send the configuration to the Nano panel. Select the **Send Complete Configuration** icon or select **Send Complete Configuration** from the *Tools* menu or press the **F10** key. Once the panel has the configuration ensure it is backed up to the panel memory.



Connect to USB socket P2 on the Main Control Board



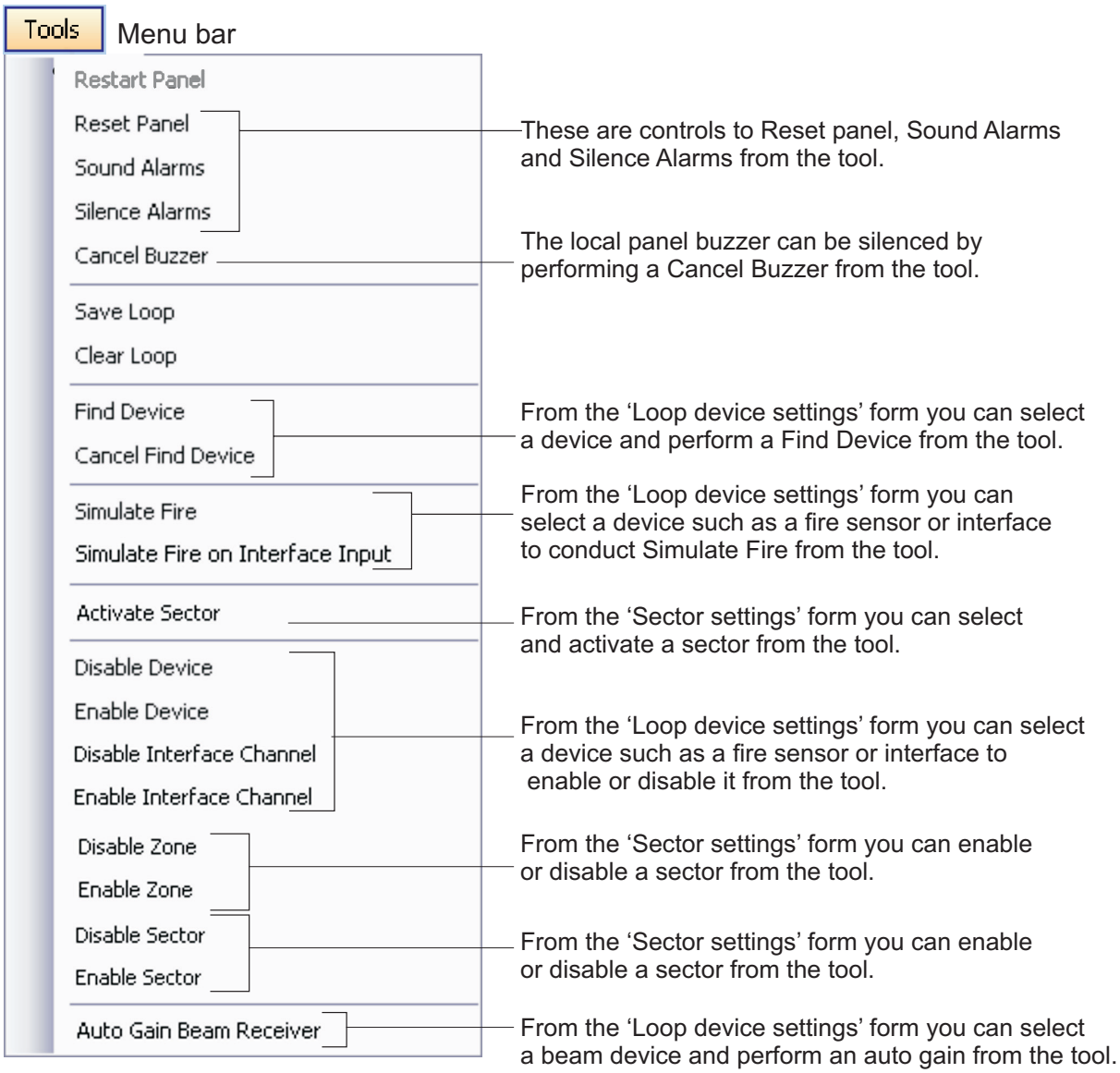
A VIEW OF THE NANO PANEL WITHOUT THE FRONT COVER



Commands to control the system from the tool

You can send commands to the panel to control the system directly from the Nano Commissioning tool, providing the tool is connected to the nano panel.

Options become selectable when the appropriate form is being displayed and the respective attribute highlighted.



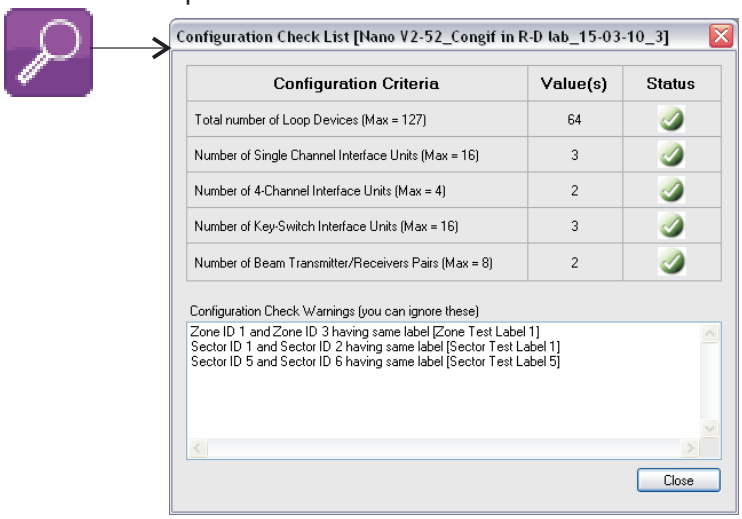
How to Upgrade firmware

The preferred method of upgrading the panel firmware is by the use of SD card at the Nano panel, follow procedures in the Nano Commissioning instructions.

Other Options

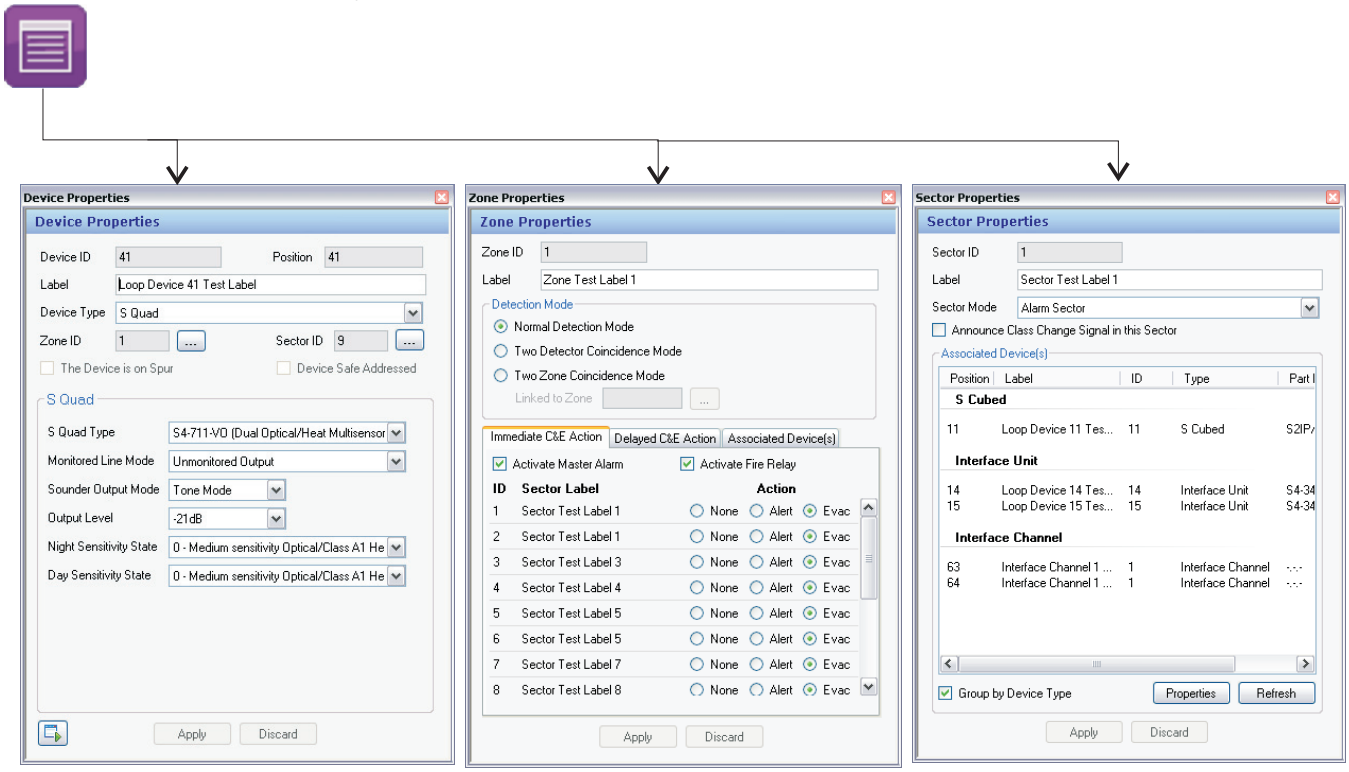
Check Configuration

By clicking on the **Check Configuration Icon** or by pressing the **F8** key or by selecting **Check Configuration** option from the *Tools* menu you can view the Configuration Check List to check the devices on the loop are within the acceptable limit.



Properties of device, zone and sector

The illustration below show typical properties of a device, zone and sector.



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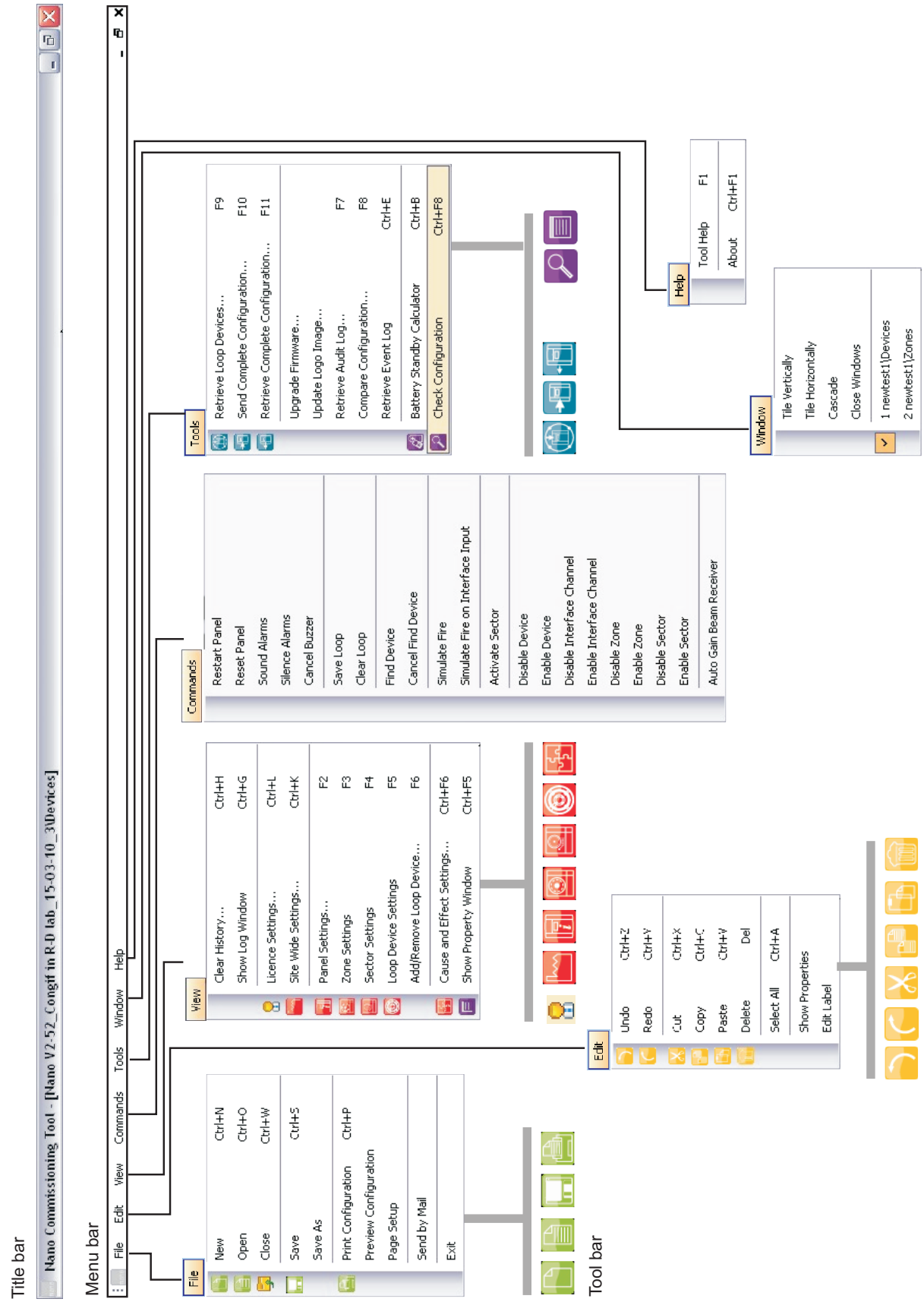
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Nano Commissioning tool menus and icons



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