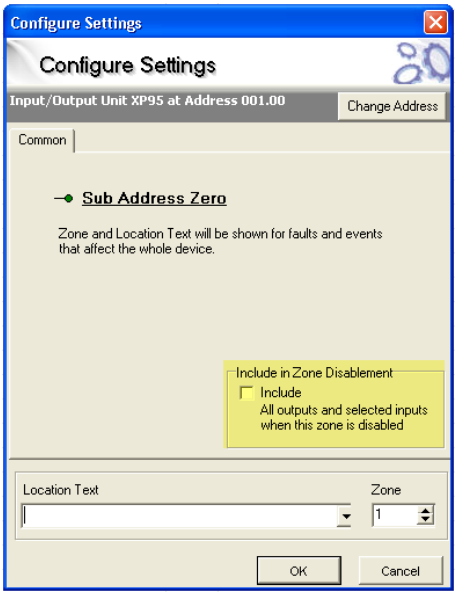
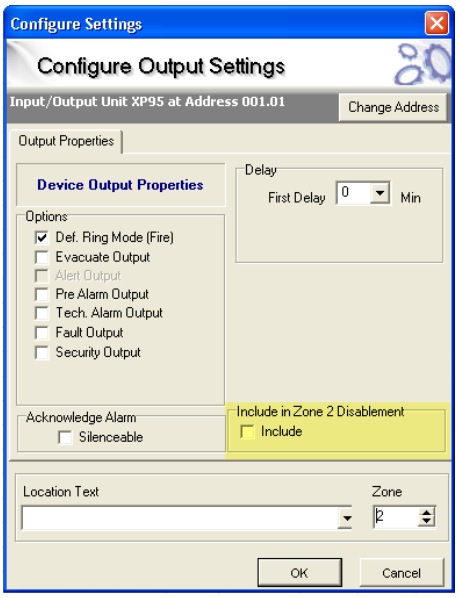
Zone disablements for Loop Input/Output devices

For Loop I/O devices, when the zone that the physical module address is mapped to has been disabled, then ALL inputs / outputs associated with that module would be disabled, regardless of whether the input sub-addresses are mapped to the same zone as the physical module.

It is now possible to configure a loop I/O device so that when the physical module address and input / output addresses are mapped to different zones, there is an option to configure whether all sub-address inputs/outputs will be disabled with the zone of the module or not.



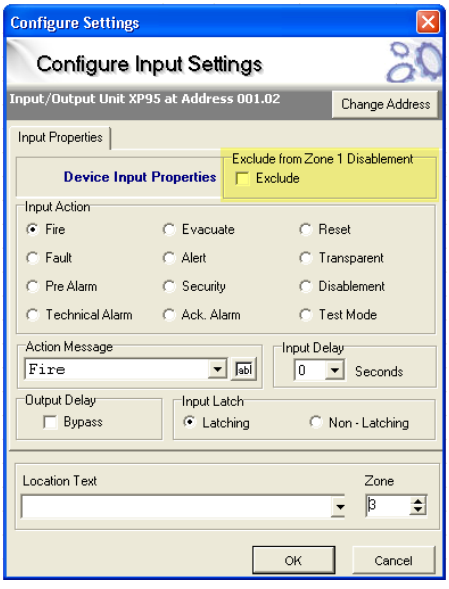
Option to include/exclude module inputs / outputs in the module zone disablement



Option to include output sub-addresses in the zone disablement to which they are configured

When a zone is disabled, normally only input devices are included in the disablement and outputs remain active. We have added an option to permit I/O outputs to be included in the zone disablement to which they are configured

Finally, if the Inputs/ Outputs are configured to be included in the module zone disablement (as shown above) and the inputs are configured to different zones to the module address zone, they can still be included / excluded in the module zone disablement.



Option to include inputs in the module zone disablement

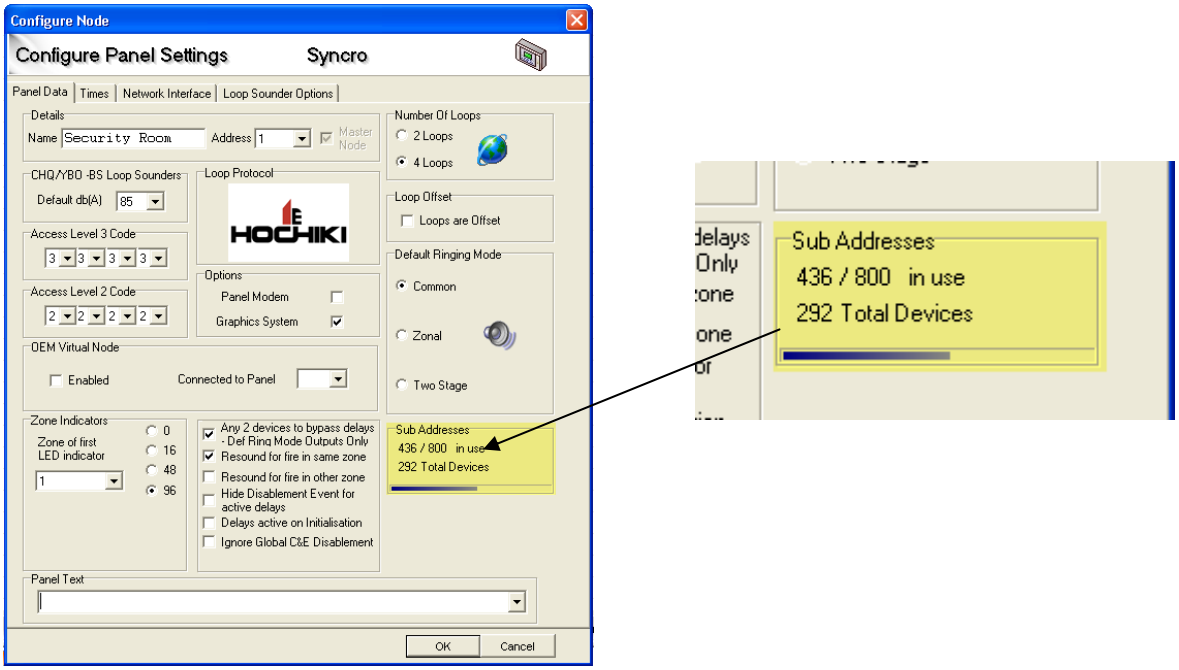
Adding these levels of flexibility allows simple isolation of all plant control outputs / inputs by means of a single zone disablement, rather than by complex cause and effects or macros.

Many customers used to map all plant outputs to Zone 500 and disable that zone to make the system safe for them to work on the system, but this option was removed for EN54-2 approval in V5.xx versions.

We have partially re-instated this facility using these configuration options

Note: This revision only applies to V6.00 or later panel firmware

Sub-address count verification
There have been a few instances where the sub-address count shown in the "edit panel" screen (stored in the configuration file) is incorrect when compared with the actual number of sub-addresses installed on the loops.
This mismatch seems to occur after editing of the configuration file and results in transfer errors being reported when the configuration is transferred to the control panel.



V6.00 Loop Explorer calculates the actual sub-address count and compares it to the stored count value. If there is a mismatch then the configuration files stored value is updated when the file is saved.

Syncro AS networks with more than 10 panels
In Loop Explorer V4.94, when adding more than 10 Syncro AS panels into loop explorer, the 11th panel onwards were added as Syncro AS panels, but could only be set to 2 or 4 loops in the Edit Panel Settings screen. This is resolved in Loop Explorer V6.00

Q-Config Zone configuration error
If a zone for a device is selected in Q-config and the "down arrow" on the keyboard pressed several times, then the Q config screen closed, it was found that devices that had been selected using the down arrow key also had their zone set to the same number as the original device.
This appeared as "corruption" to the zone numbers because they hadn't been changed in Q-config.
This has been resolved in Loop Explorer V6.00

16 channel I/O input (S560) – input allocation error after changing channels from inputs / outputs (Loop Explorer)
If the S560 16 channel I/O card input channel attributes were changed from the default "Fault" input to other input types, it was found that if any of the other channels were re-configured from inputs to outputs, then all amended input channel configurations reverted to the default "Fault" input.
In Loop Explorer V6.00 the input channel allocations are maintained, even if the quantity of input / output channels is amended

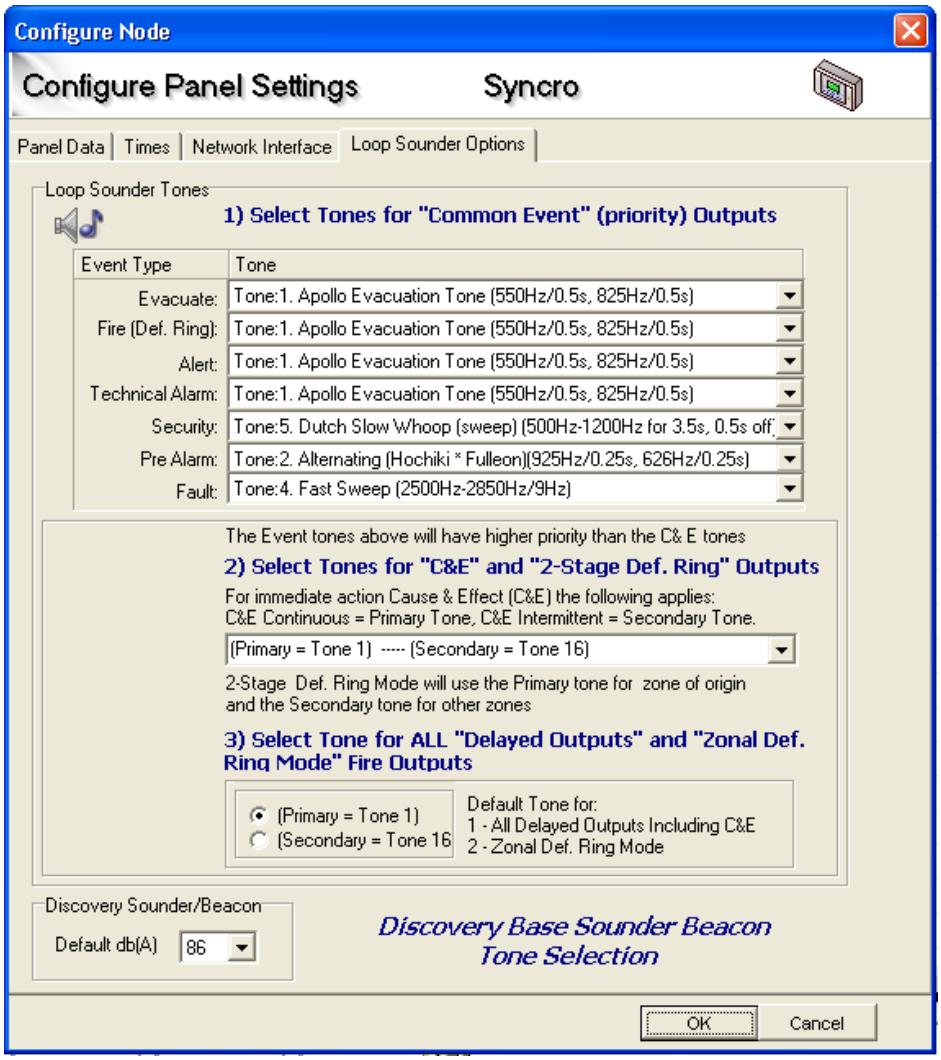
6-way Sounder card - Input 1 and Input 2 channel allocations
There was an error whereby the two programmable inputs on the K546 6-way sounder cards were incorrectly allocated. When the configuration file is transferred to the control panel, it was found that any text and zone allocations for input 1 was being allocated to input 2 (and vice versa).
Loop Explorer V6.00 correctly allocates these channel details when transferred to the panel

Output Delay Configuration error for International Regional setting
For customers outside the UK it was not possible to configure the 1st / 2nd stage output delays, because the comma decimal separator is used in place of the decimal point. Loop Explorer checked the value before storing the time in the database and reported an error. This has been resolved in Loop Explorer V6.00

Apollo Protocol specific revisions:

Discovery Sounder Beacon Base (DSBB) - Tone selection tab
The "Discovery Sounder Tones" tab on the edit panel settings screen is no longer visible, unless there are Discovery Sounders installed on the detection loops for that panel.

Discovery Sounder Beacon Base (DSBB) - Tone Selection Screen
The Apollo DSBB sounder tones selection screen has been updated to allow 30 individual tone options to be selected for "Common Event" outputs and one of 15 "tone pairs" to be selected for cause and effect / 2 stage default ring outputs. Of the selected tone pair a final selection is provided to allow the delayed / zonal def ring tone selection.



The revised tone selection screen allows DSBB tone options and priorities supported by the devices to be clearly represented and configured.

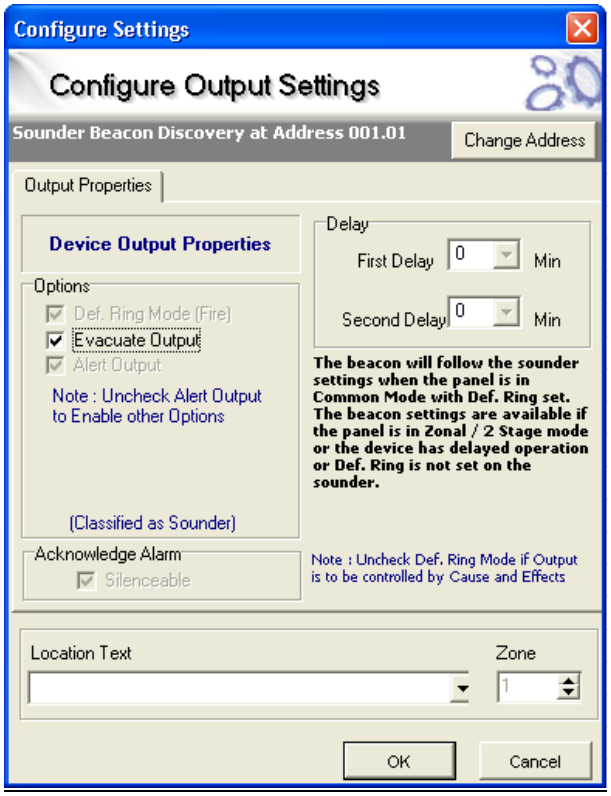
The "common event" tones (tones that are sent to all DSBB regardless of the source of the event) have higher priority than "direct" commands to the DSBB.
Therefore for example, DSBB controlled by Common Def Ring Mode will use one of these global commands and will all switch on at the same time.

DSBB controlled by cause and effect logic or 2-stage default ring mode use "direct" commands. This is necessary because the panel cannot pre-configure the devices before the event occurs, because it doesn't know the source of the fire. Therefore it has to send individual commands to each device in turn rather than switching them all with a single command.
Direct commands then use the 15 Apollo tone pairs for the tone selection. "Evacuate" or "Continuous Cause and Effect" outputs will use the DSBB primary tone, "Alert" or "Intermittent Cause and Effect" outputs use the secondary tone from the selected pair.

Direct commands have a lower priority than the "common event" commands. Therefore if a DSBB is switched on by a cause and effect but is also configured to operate on the common command then the tone / operation will revert to the common command output attributes

Delayed outputs or outputs controlled by Zonal ringing patterns also use "direct" commands. Of the tone pair selected, either the primary or secondary tone may be sent to the DSBB when switched on using this mode of control

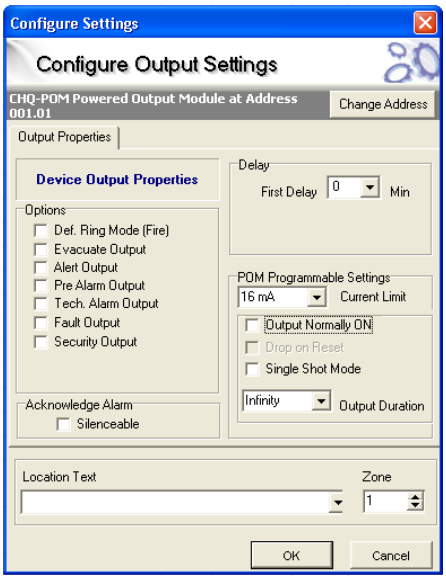
Discovery Sounder Beacon Base (DSBB) - Beacon configuration
The DSBB beacon sub-address cannot be independently controlled if the DSBB has been switched using the "common event" controls detailed above. Configuration restrictions to only allow the beacon to be independently controlled from the sounder if the sounder is not controlled by a common event tone (i.e if the sounder is being controlled by Zonal / 2 stage def ring mode, delayed operation or by cause and effect) have been added.

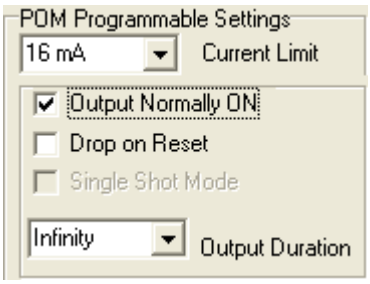


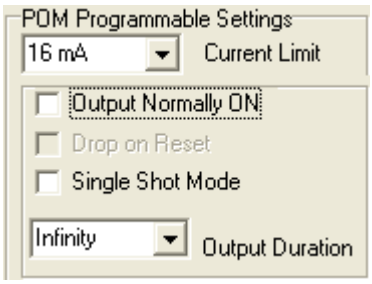
Hochiki specific revisions:

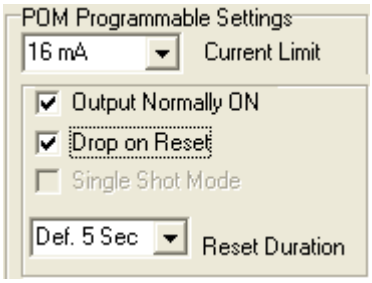
CHQ-POM configuration screen

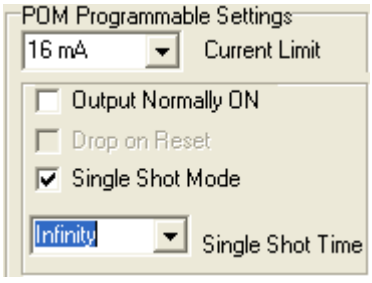
The configuration options for the POM output has been tidied to simplify the device settings and only allow the combination of output attributes supported by the device to be configured











Argus Vega specific revisions:

Red Polling LED facility

This option is selected in the "Edit Panel Settings" screen and allows the Vega Lite detection devices (which do not support the standard green polling LED) to be configured to allow their fire indicator to flash on polling.

V200 Multi Criteria Monitor – Extended Modes

This device can now be configured to operate as multi criteria mode (4 sensitivity settings), optical mode only (4 sensitivity settings) or heat only mode (1 setting). This is only supported by V200 devices with firmware V1.59 or later and Syncro V6.01 or later.