

IRIS-4

Firmware 4.6.2

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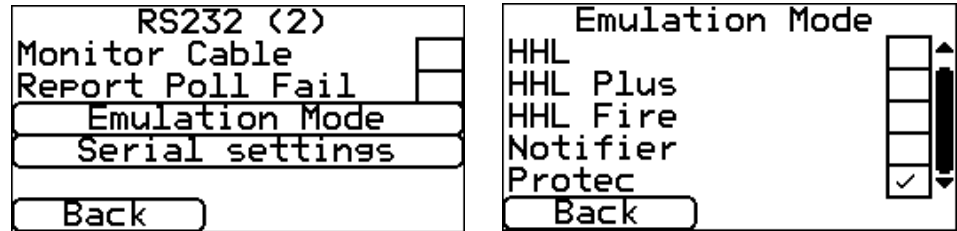
1 OVERVIEW

This document details changes from firmware Version 4.2.2 to Version 4.6.2. for IRIS-4 products.

2 CHANGES IN THE RELEASE

2.1 Protec Fire Panel Support

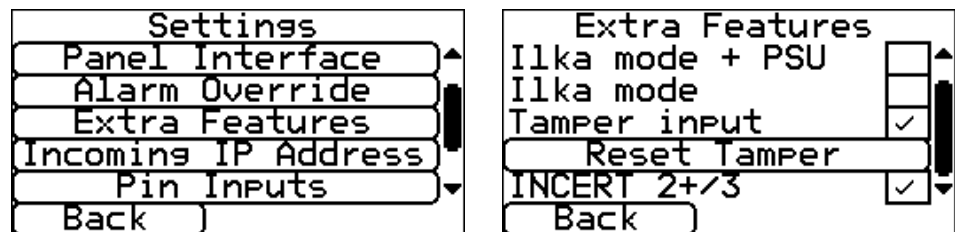
Support for Fire Panel serial interfaces has been extended to include Protec panels on serial port 2.



2.2 Tamper Restore

This enhancement has been made for compliance to Belgian Incert standards and is only applicable if 'INCERT 2+/3' mode has been selected on the Touch Screen->Extra Features menu.

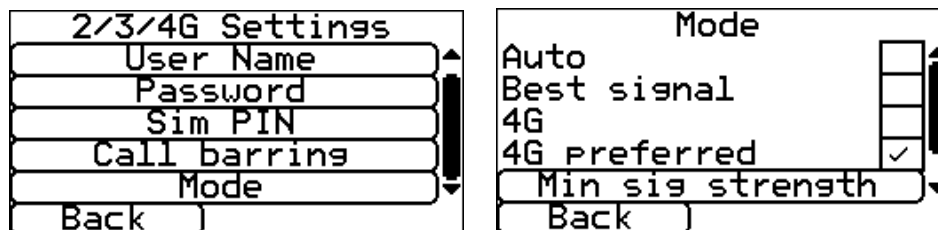
If a tamper switch activation occurs (including activation of the tamper input on non-cased variants), it does not restore automatically, it must be restored via the Touch Screen->Extra Features menu 'Reset Tamper' button.



If the tamper physical condition has been restored before 'Reset Tamper' has been selected, the reset button will be removed and the tamper restore message will be sent to the monitoring centre. If not, the button will be removed and the tamper restore will be sent when the condition is restored.

2.3 Cellular Mode

A Cellular Mode setting menu has been added to the 2/3/4G settings menu to select the Cellular technology used.

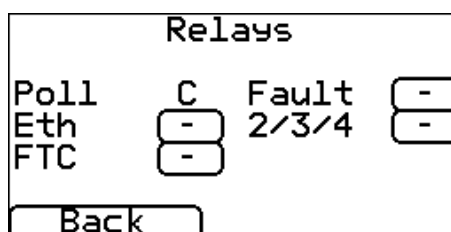


The options available are:

- Auto - the terminal will adopt the technology that is selected by the combination of the SIM card configuration and the network operator.
- Best signal - the terminal will select the technology with the highest signal strength (the default setting in the previous firmware release).
- 4G - fixed to 4G only. Note if there is no 4G available the terminal cannot fall back to 2G or 3G and so cellular communication will not be possible.
- 4G preferred - 4G is selected as long as it is available and above the minimum signal strength selected. Note if there is no 4G available the terminal will fall back to 3G or 2G if available.
- 2G + 3G - the terminal will not use 4G.
- 3G - as '4G' but fixed to 3G.
- 3G preferred - as '4G preferred' but 3G is selected if available and above the minimum signal strength specified.
- 2G - as '4G' but fixed to 2G.
- 2G preferred - as '4G preferred' but 2G is selected if available and above the minimum signal strength specified.
- Enhanced roaming - the same function as available on the previous version of software.

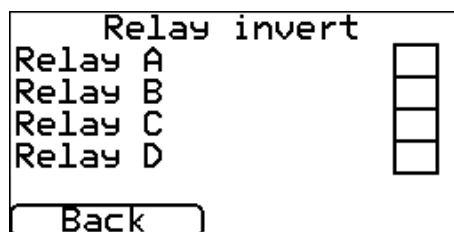
2.4 'Fail to Communicate' Relay output

A relay can be selected to indicate 'Fail to Communicate'. This is found in the 'Trouble Reporting' 'Via Relays' menu.



2.5 Relay Invert Setting

A relay invert setting is available in the 'Relays' menu.



2.6 Support for Contact ID protocol with 10-digit account code

Historically, the Contact ID protocol has been specified only with a four-digit account code, although the IRIS system can support up to 6 digits of account code with Contact ID format. There is now an updated version of the Contact ID protocol that allows 10 digits for the account code and the terminal has been updated to support this. When 'alarm override' is selected, the terminal includes a modified account number in a 10-digit Contact ID message, as follows:

- If the terminal's account number has 7, 8 or 9 digits, it is padded with leading 0s to make it 10 digits long before being included in the Contact ID message.
- If the terminal's account number is more than 10 digits, the leading digits are removed to make it only 10 digits.

2.7 'Only Analogue' Dialling via GSM

The 'Only Analogue' option on the 'Panel Interface' 'Dial Port' menu has been replaced by a 'PSTN only' option, as 'GSM only' dialling is no longer available.

3 HOW TO REFLASH

Refashing can be instigated remotely via the IRIS Secure Apps system to which the terminal is reporting, thereby saving the need for a site visit. This can be done either by using the Reflasher App within IRIS Secure Apps or within the IRIS Secure Apps Dialler Dialogue App, by instructing the terminal to 'Start Dialler Management' to the reflash server IP address (see below).

Alternatively, for local upgrade, connection to the reflash server can be instigated from the installer menu, Settings->Reflash:



The reflash IP address is set by default to AddSecure's reflash server (195.59.117.164) and does not need to be changed unless another reflash server is to be used.

Refashing can also be carried out by direct local connection to terminals, using our IRIS USB Reflasher that can be downloaded from our web site www.addsecure.com.

4 [PREVIOUS RELEASES](#)

4.1 [Release 4.2.2](#)

4.1.1 Operation with Galaxy Flex alarm panels

It has been identified that when an IRIS terminal is connected to a Galaxy Flex alarm panel via the RS485 bus, some events can cause it to generate a Tamper alarm within the panel. This release prevents this happening.

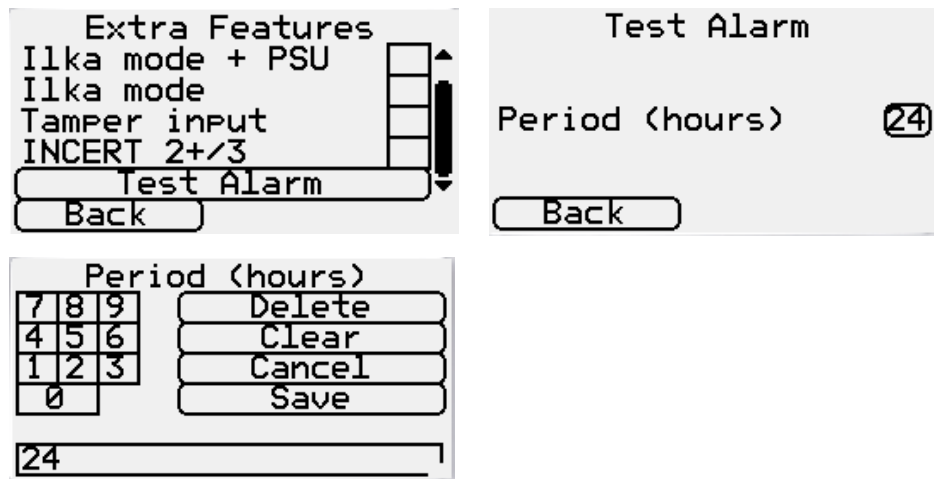
4.1.2 Operation with Galaxy alarm panels with 4-6 digit account code conversion

Some time ago a feature was built in to IRIS 6xx series terminals to automatically convert 6 digit account numbers given to it from the alarm panel, to 4 digit numbers where the number starts with two leading 0's. This prevents confusion between the alarm monitoring centre, the installer and the alarm panel. A situation has been found recently where if the monitoring centre has set up two accounts, one with six digits (e.g. 00abcd) and one with the same four digits (abcd), then the terminal oscillates between the six digit and the four digit version. This situation has been resolved in this release.

4.2 [Release 4.2.1](#)

4.2.1 Regular test alarm

In cases where the IRIS terminal is not connected to an alarm panel that can itself generate a regular test alarm (e.g. when inputs are used), it can be convenient for the terminal to generate a regular test alarm. This gives the monitoring centre a consistent way to monitor end-end connectivity across many installations. Previously IRIS-4 4xx terminals have supported test alarms over PSTN only, but not over all paths (i.e. the first path available).



4.2.2 Operation with Vanderbilt SPC panels via Ethernet

IRIS-4 4xx terminals support connection to Vanderbilt SPC panels via the second Ethernet connection on the terminal. Alarms from the panel are sent to the monitoring center using the SIA protocol. The alarm time and data received from the panel is included in the SIA message. It has been noted that the SIA time/date format was not correct and this has been rectified.

4.2.3 Operation with Notifier fire panels

IRIS-4 4xx terminals support a serial connection to Notifier alarms panels and convert the alarm information from the panel to SIA format for transmission to a monitoring center. The terminal has been enhanced so that it supports the maximum message length (105) supported by the panel.

4.2.4 Selection of Cellular Technology

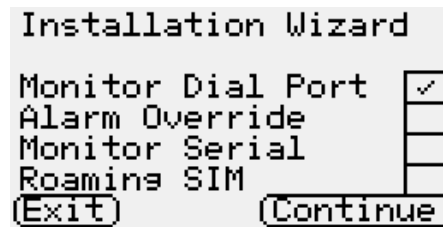
By default, IRIS-4 terminals select the cellular technology (2G, 3G or 4G) with the highest signal strength. It has been found that if one of the technologies is available on the cellular network to which the terminal has local access, but is not able to support data transmission, then this process is not optimum and the terminal may not select the technology with highest signal strength. This situation has been resolved.

4.3 First IRIS-4 release - 4.2.0

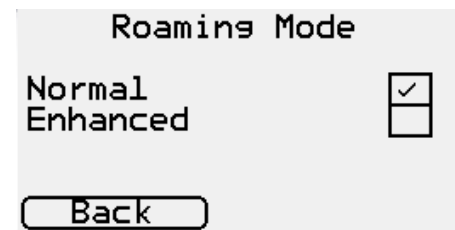
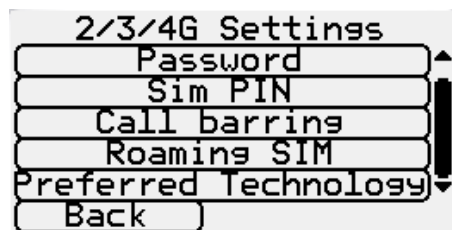
This was the first release of IRIS-4 firmware. This contains the same functions as the previous release of the IRIS Touch NG series which IRIS-4 superseded, with the additions described below.

4.3.1 Enhanced Roaming Selection

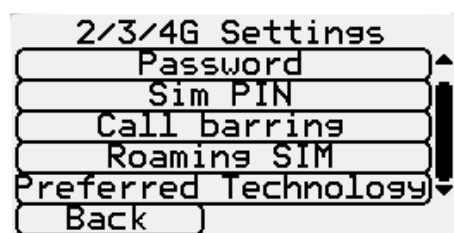
On the IRIS Touch NG series, the installation wizard included a selection tick box for 'Roaming SIM', as below.



This was removed from this menu on the IRIS-4 series because the meaning of the selection was ambiguous. The intention of the setting is 'enhanced' roaming where the terminal monitors the signal strength of the signal from all available cellular service providers and selects the one with the highest signal strength. It was identified that the setting was being selected by some installers if the SIM card in use is a roaming enabled SIM card and where there was no need for the selection of the operator with the strongest signal, as described above. This could result in intermittent trouble being reported by the terminal to the monitoring centre. The selection of this feature, for those who need it, has therefore been moved to the settings menus.



4.3.2 Selection of Preferred Technology



This setting allows the installer to select the preferred technology (Auto, 2G, 3G or 4G) used by the dialler for its cellular connection and the minimum signal strength required for the connection. If the signal strength is not at the required level (default is 10), the terminal will use

a different technology that does meet the requirements. A setting of 'Auto', which is the default, instructs the terminal to select the technology with the highest signal strength, as with IRIS Touch NG terminals.