

IRIS Touch Firmware Enhancements and Additions from Version 1.12.9 to Version 1.14.1

Overview

This document details enhancements to the feature set of the IRIS Touch from firmware Version 1.12.9 to Version 1.14.1.

This release (V1.14.1) is available on Chiron's reflash server with immediate effect. Due to normal manufacturing lead times, it will be introduced into new shipments over the course of the next few months. However, all IRIS Touch diallers can be upgraded by connecting them over IP to our reflash server, so you can be sure of having all the latest facilities, even if you have already taken delivery of the dialler. This can be done prior to install, at install or even after install.

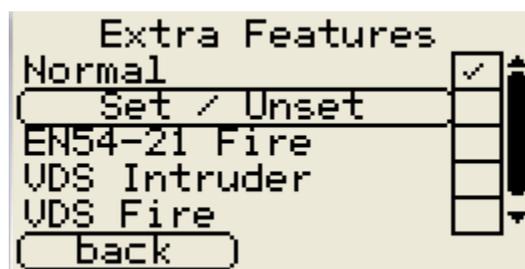
Changes in this Release

New Features

EN54-21 Compliance

IRIS Touch products have now been certified for EN54-21 compliance and are suitable for use for fire alarm reporting, provided they have this or later firmware. This is a major benefit as it means that the IRIS Touch range can be used in any fire alarm installation where the European Construction Product Directive (CPD) applies.

An additional mode is provided in the Settings->Extra Features menu.



In this mode, the operation of inputs and outputs is automatically modified for compliance and an automatic configuration memory check is enabled. Please refer to Chiron's 'Touch Dialler Installation Manual for EN54-21 Compliant Fire Applications' for full details and installation requirements that must be adhered to, to achieve EN54-21 compliance.

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LPS1277 Compliance

IRIS Touch products have also now been certified for UK specific LPS1277 compliance and listing in the BRE 'Red Book', which is likely to become an essential requirement for any insurer approved installation in the UK. There are no additional installer settings that are required to achieve this compliance, but this version of firmware or later **must** be installed in the IRIS Touch. Please also refer to Chiron's 'IRIS Touch Dialler Installation Guide for LPS1277 Compliant Applications'.

Automatic GPRS APN assignment

Set-up of and installation of the IRIS Touch has been made even simpler by the addition of automatic APN assigned. Every dialler with GPRS support already reads the SIM card number and reports this to the monitoring centre for SIM tracking etc, and this process has been enhanced so that at the same time the dialler automatically assigns an APN, based on the SIM card number. Currently the following APNs are assigned in this way:

<u>Network</u>	<u>APN</u>	<u>SIM card number range</u>
Orange, UK	orangeinternet	894412.....
O2, UK	mobile.o2.co.uk	894410.....
T Mobile, UK	general.t-mobile.uk	894430.....
Vodafone, UK	internet	894411.....

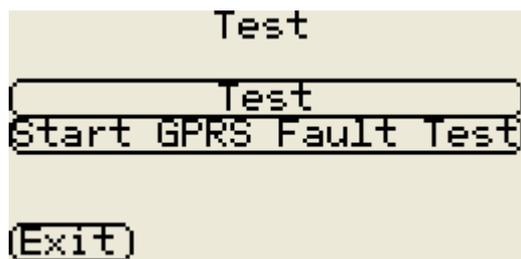
If an APN has been assigned automatically, it is shown to the installer during the installation wizard, in the normal way. If the installer needs to make a manual APN entry this can still be done in the normal way in the installation wizard or via the settings menus. Note that if a manual entry is made, the automatic assignment is disabled.

Pulsing of Relays by SMS Text Transmission

IRIS Touch diallers with GSM support and relay outputs have always had the ability of having these outputs opened or closed by an incoming text message. This feature has been enhanced to include 'pulsing' of the relay for a time period which is convenient for several applications such as gate and door control. This is achieved by appending the text string `_nnn` to the end of the string that has already been configured into the dialler for relay activation, where `_nnn` is the pulse duration in seconds (maximum 240s). So for example, if the text 'Open' is used to open a relay, then text 'Open_20' will open the relay for 20s, after which time it will be closed.

GSM/GPRS Fault Simulation

IRIS Touch diallers with GSM/GPRS support have always reported any network interface trouble (e.g. loss of registration) to the monitoring centre. A new Test menu option has been added to enable an installer to simulate a fault so the monitoring centre can check that the report is presented properly to the operators.



Note that this mode stays operational for 1 minute and is then automatically switched off, to prevent a situation where the installer forgets to switch it off thereby disabling GPRS. It can be switched off earlier if required.

Risco Panel Remote Upload/download using the Risco RS485 bus.

An additional option has been added to the Touch RS485 interface for support of remote upload/download of RiscoProsyst panels from Risco's UD firmware. This is available in the Settings-Panel Interface->Serial Port RS485 menu.



Power Status Reporting

To provide advanced warning of potential power problems such as low battery, IRIS diallers now monitor the input voltage level and report to the monitoring centre if the voltage drops below a threshold. The messages are sent as SIA event messages;

- Event YP96, with text 'Iris power' if the voltage drops below 8.5V for over 30s
- Event YQ96, with text 'Iris power' if the voltage rises above 9.5V for over 30s

Note, the 'hysteresis' between the thresholds ensures that in marginal situations multiple transmission of messages is avoided.

These thresholds and the messages transmitted can be changed via the IRIS Touch serial or USB port. Please consult Chiron for more information.

SMS Text Transmission and Reception via Serial and USB ports

The IRIS serial API for embedded applications has been enhanced to include transmission and reception of SMS text messages.

Text messages can be sent via the serial or USB port by sending the 'pseudo' dial command 'ATDXnumber:"text"<Enter>.

There is a setting to enable incoming texts to be presented to the serial or USB ports:

- %G103 = 0 No reporting
- %G103 = 1 Reporting via serial
- %G103 = 2 Reporting via USB

Please note – this feature only applies to members of the IRIS Touch range with GSM/GPRS support.

Improvements

Notification of Installer Activity to the Monitoring Centre

To enable monitoring centres to trace installer activity, when an installer enters the IRIS Touch installer menus either via the touch screen or via Chiron's dialler configuration firmware, a notification message is sent to the monitoring centre. This alarm takes the format:

- SIA event LB97, with text 'IRIS engineer'
- Contact ID event 627, on zone 97 (Touch 440R only)

These messages can be changed via the IRIS Touch serial or USB port. Please consult Chiron for more information.

Polling and Alarm TCP Port Numbers

The polling ports used by IRIS Touch diallers for polling and alarm transmission have historically been different by default (52737 and 53165), to allow monitoring centres to prioritise traffic. However, to fall in line with new alarm transmission standards these have now been unified to a single port number (53165). This remains backwards compatible with Chiron's IRIS Secure Apps systems at the monitoring centre and all IRIS Management Suite installations from Version 1.12 onwards.

*Please note – any user of IRIS Management Suite version 1.12 or earlier **must** upgrade to maintain compatibility with the new firmware. Please consult Chiron if in doubt.*

Honeywell Galaxy RS485 Bus Interface

A number of improvements have been made to the operation of IRIS Touch diallers using the RS485 interface to Galaxy alarm panels:

- To set defaults on the IRIS Touch it is necessary to set the monitoring centre IP address in the Honeywell panel to 127.0.0.1. Previously if this address was left blank the IRIS Touch would default which meant that it was not easy to use the IRIS Touch in situations where remote access for maintenance but not reporting to a monitoring centre is required, as the IRIS Touch would be default whenever the Galaxy sent the blank monitoring centre address.
- Honeywell extended event reporting is supported so IRIS Touch diallers can be used in systems which require, for example, PSTN backup using the Galaxy on-board PSTN communicator.

- Corrected display of full and empty block characters on remote keypad operation.

Texecom 'emulation' Mode

Interface to Texecom alarm panels via the IRIS Touch serial interface has been supported for some time, but with the IRIS Touch 4xx range this has also required the configuration of the correct serial interface speed by entry of special commands on the USB port. This setting is simplified by being made available on the mode Settings->Panel Interface->Serial Port RS232->Emulation Mode menu. Selecting Texecom mode ensures the serial interface speed is set to 19200 bps for Texecom panels (note – does not apply to Touch 6xx diallers which default to 19200 bps).



Installation Wizard – GPRS Connection

The operation of the GPRS Polling and Alarm tests in the installation wizards has been made more reliable to avoid occasional situations where test calls failed. Note – it was only the wizard that was affected in earlier versions – live GPRS operation was not affected.

Touch Serial API improvements

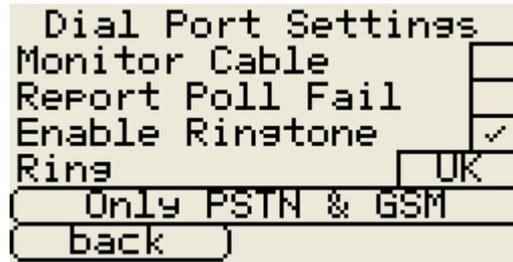
The IRIS Touch Application Programming Interface has been improved to make it suitable for use either via the RS232 or via the USB interface. Please consult Chiron for information.

Finnish Menu Text

A number of corrections have been made to the Finnish text in the menus.

Ring Tone and Ring Cadence

The dial capture port ring tone and ring cadence now default to 'European' (they used to default to 'UK'). The setting can be changed from the Settings->Panel Interface->Dial Port menu.



How to Reflash

Connection to the reflash server can be instigated from the installer menu, Settings->Reflash:



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