Chiron Technology

IRIS Alarm over IP System

Dialler Configuration User Guide

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Contents

1. Document Change History

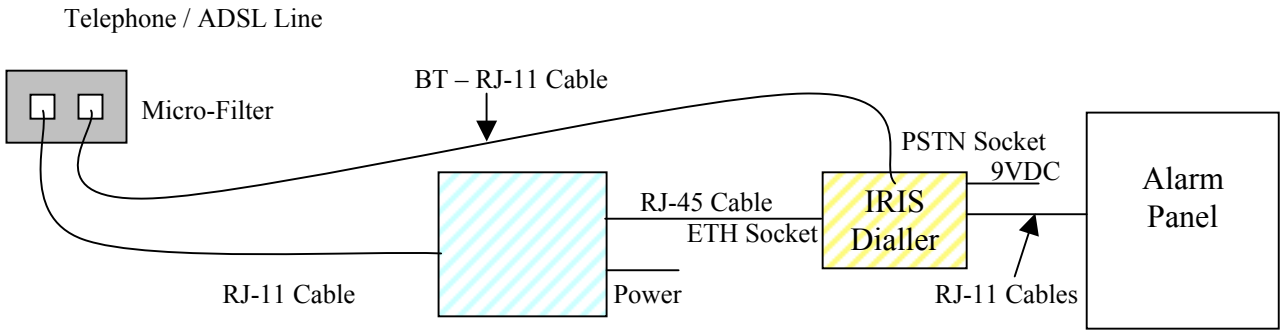
Version	Date	Changes
0.1	08/01/07	First release

DIALLER CONFIGURATION SOFTWARE USER GUIDE:

2. INTRODUCTION:

The Dialler Configuration Software is designed to allow the user full control over the configuration of the IRIS products, and also allows some diagnostics and installations tools.

The IRIS Dialler has been designed for the implementation of Alarm Panel to communicate over different medium like IP, ISDN, and GSM / GPRS and many others. It has been designed to be as simple to install as possible but in certain circumstances the customer wants to be able to do that little bit extra. This is where the IRIS excels and allows a number of additional features that can be implemented and this is where the Dialler Configuration software comes in to allow these features to be configured.



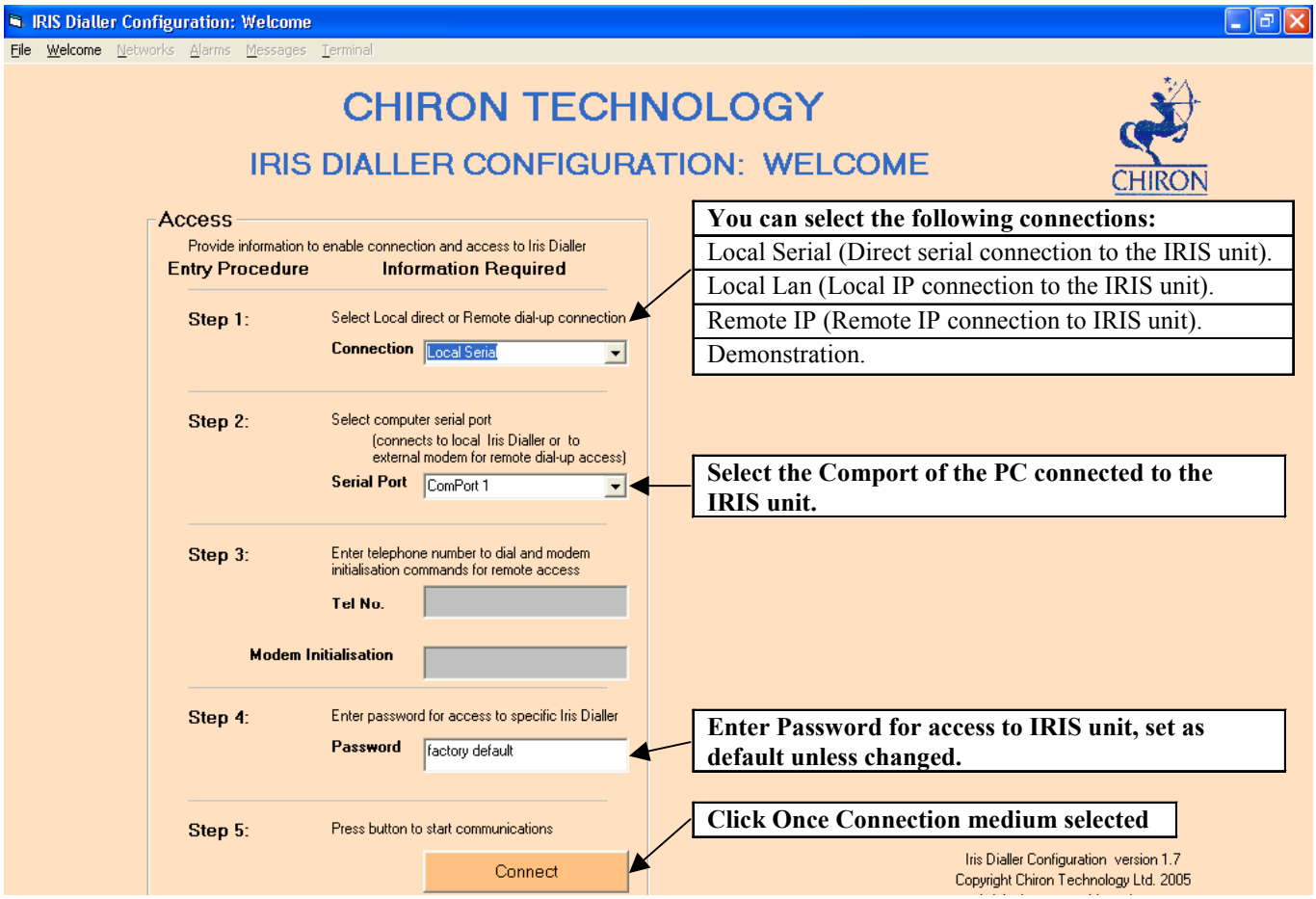
With in this document we are hoping to discuss and show the use of these tools / configuration for the successful installation of the IRIS unit on sites, and how this can be used to diagnose problems.

3. WELCOME PAGE:

Once the software has been loaded onto the PC and run you will be presented with the following screen:

Within this screen you will select the Connection type that you have to the IRIS unit (Normally Local Serial) and then click the Connect button to precede to the next screen.

The Password will always be “factory default” unless changed by the user.

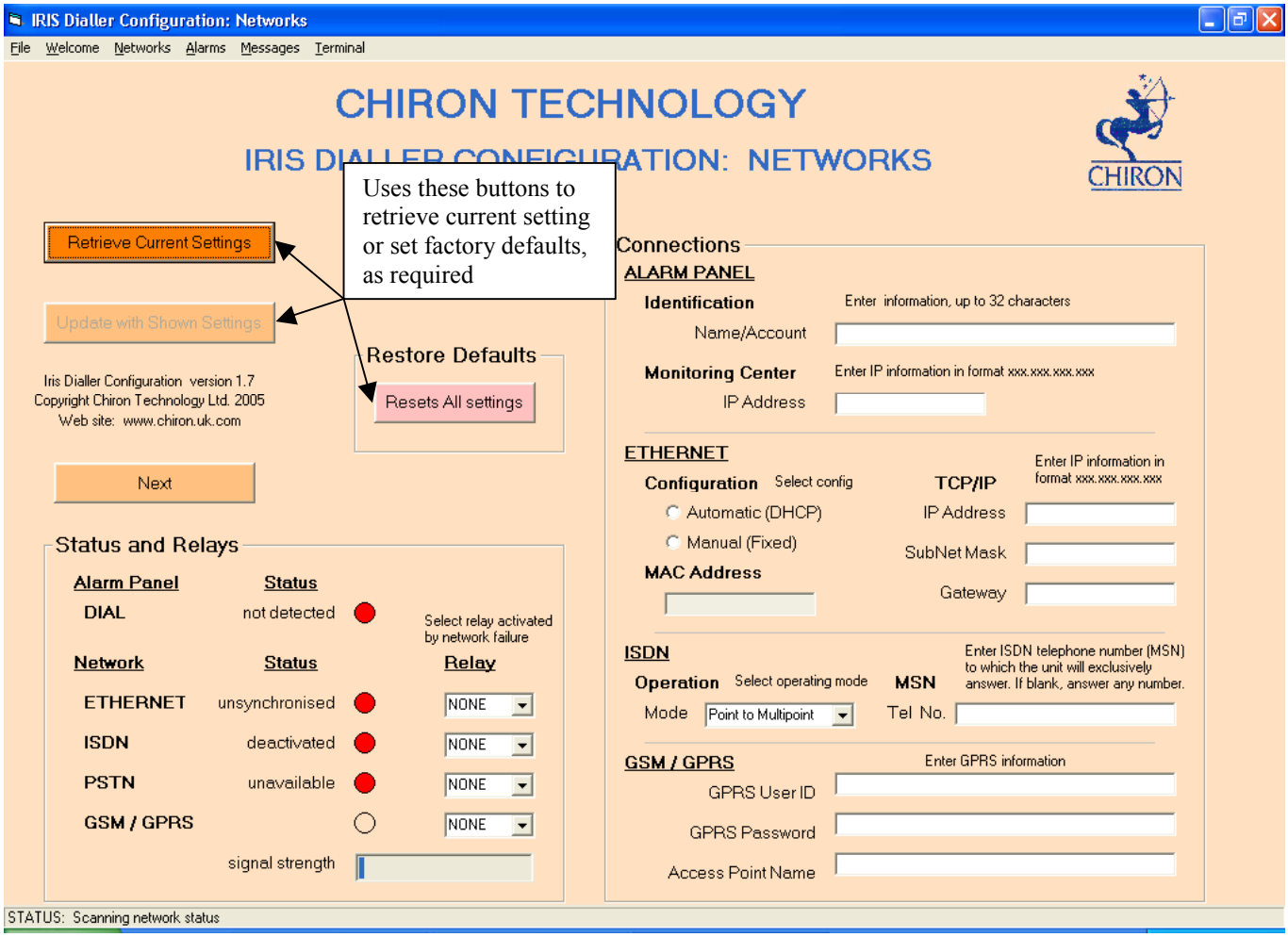


The Next Screen is as followed and it allows the user to confirm the IRIS type and version connecting to.

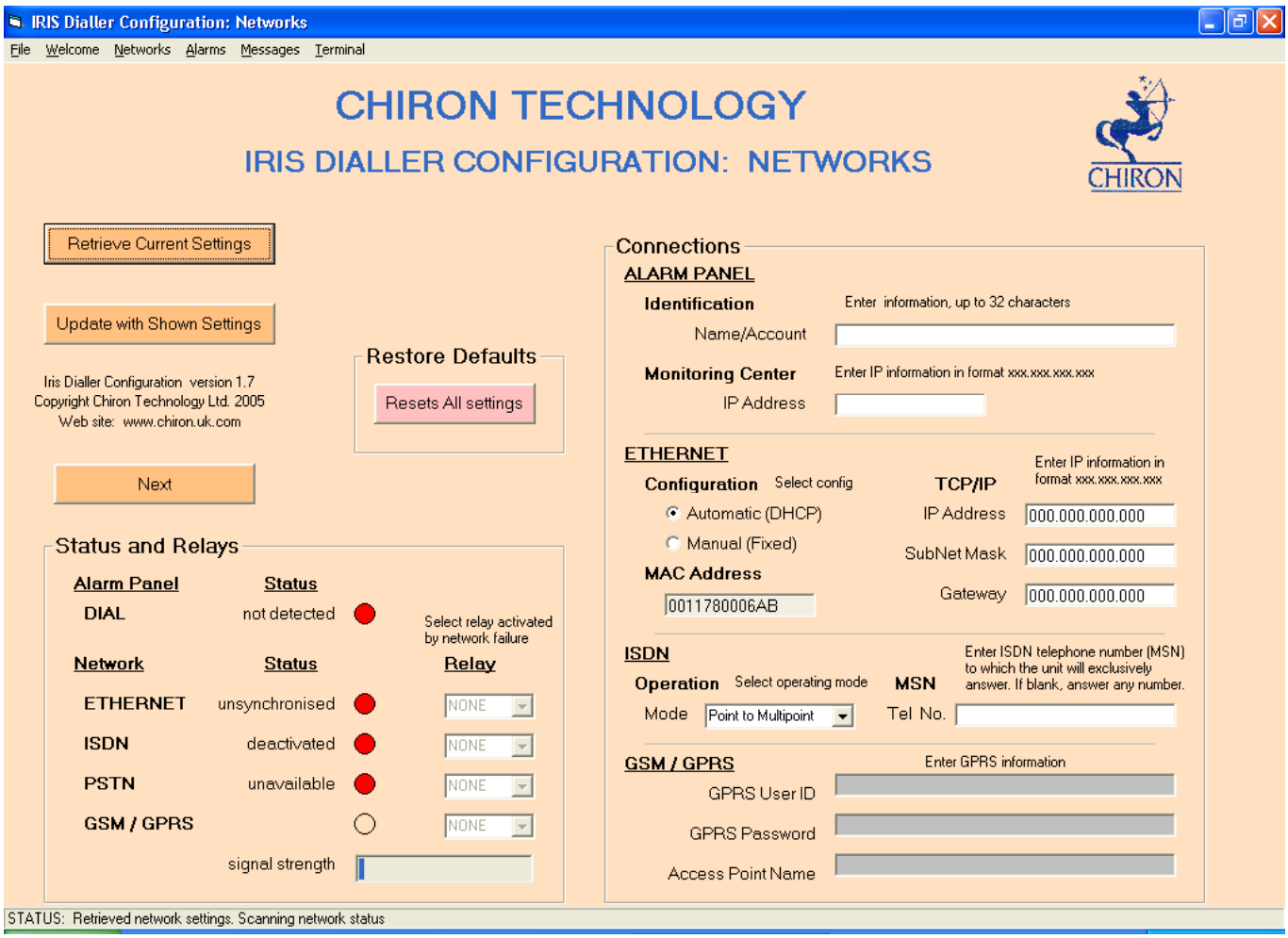
Once this has been confirmed and noted please click the “Continue” button to proceed to the next screen.

4. NETWORKS PAGE:

You now in the Main configuration screen where you can start to configure the IRIS Dialler.



Click the “Retrieve Current Settings” to view the current configuration of the unit and you will get the following screen, which we will break down and go into the settings available.

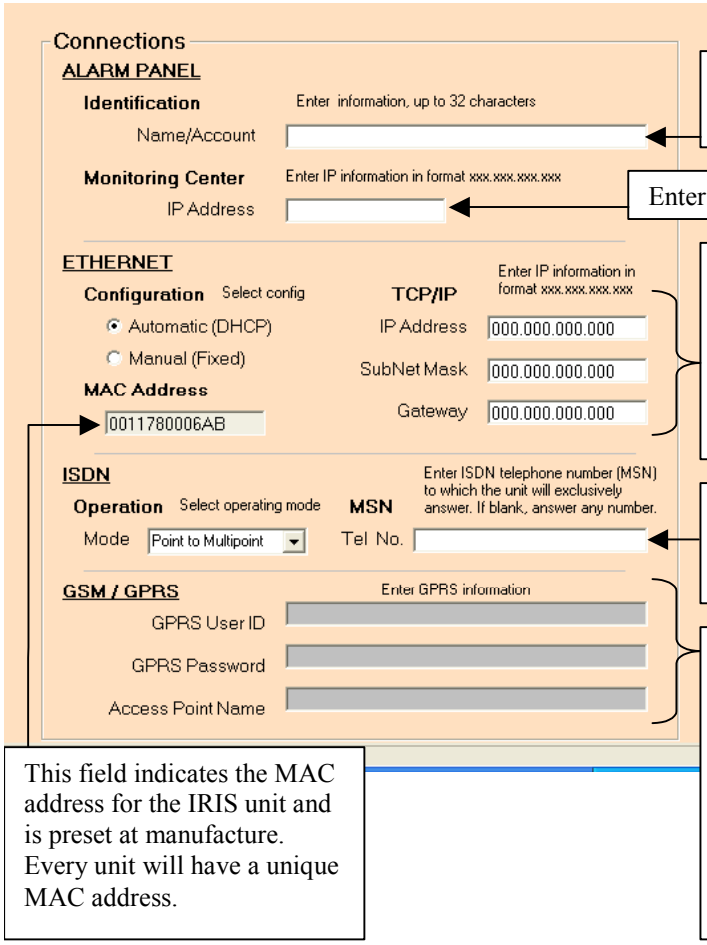


We will break this down into 2 modules being the “Connections” and the “Status and Relays”.

4.1. Connections:

As you can see below we have cut down the screen to the relevant setting we are going to discuss here.

These are the connection settings that set up all the Communication setting needed for the IRIS unit to be able to communicate to the Polling Engine.



This would be the Account / PIN number for this site, allocated from ARC.

Enter the External Ethernet / IP address of the Polling Engine

If Set to DHCP these options will be pre-configured once the Network / Ethernet is plugged in and synchronised.
If set to Manual then the IP Address, Subnet Mask and Gateway would need to be configured to the Network requirements, normally allocated by the IT Department.

Select the ISDN Mode "Point to Multipoint" or "Point to Point", and you can enter the MSN number the unit will answer to if the ISDN line is configured for MSN.

If the Unit has GSM/GPRS you may need to set these values again dependent on the Network provider. Normally just the Access Point Name (APN) is needed and we have listed a few common Network providers below.

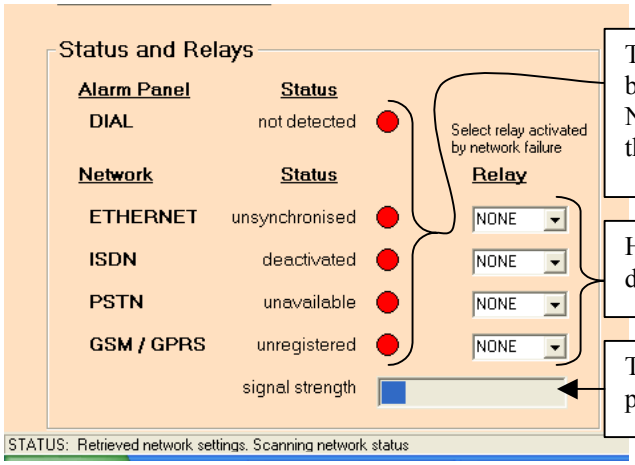
Vodafone	=	internet
Orange	=	orangeinternet
O2	=	mobile.o2.co.uk

This field indicates the MAC address for the IRIS unit and is preset at manufacture. Every unit will have a unique MAC address.

Once you have entered the relevant information then click the Update with Shown Settings button.

4.2. Status and Relays:

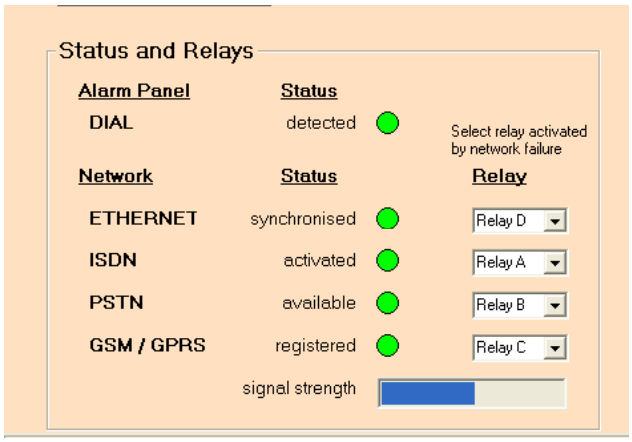
The following Setting allows the user to see current states of the Communications paths, and configure the Relay outputs for this Communication path for alarm purposes.



These show the status of the Dial port and Network paths via a brief status message and a red / green LED indication.
Normally you would be looking for Green on the Network paths that you have connected. See Screen Shot below for reference.

Here you can enable / disable the Relays that are assigned to the different Network Paths, for activating when network failures.

This shows the signal Strength for the GSM / GPRS network paths



This screen shows the different status you can receive here and the Relay setting for each network path (The relays are fixed to each network path and can only be disabled and enabled).

Dial: Shows if the Panel / Phone has gone Off Hook (detected / Green) or On Hook (not detected / Red).

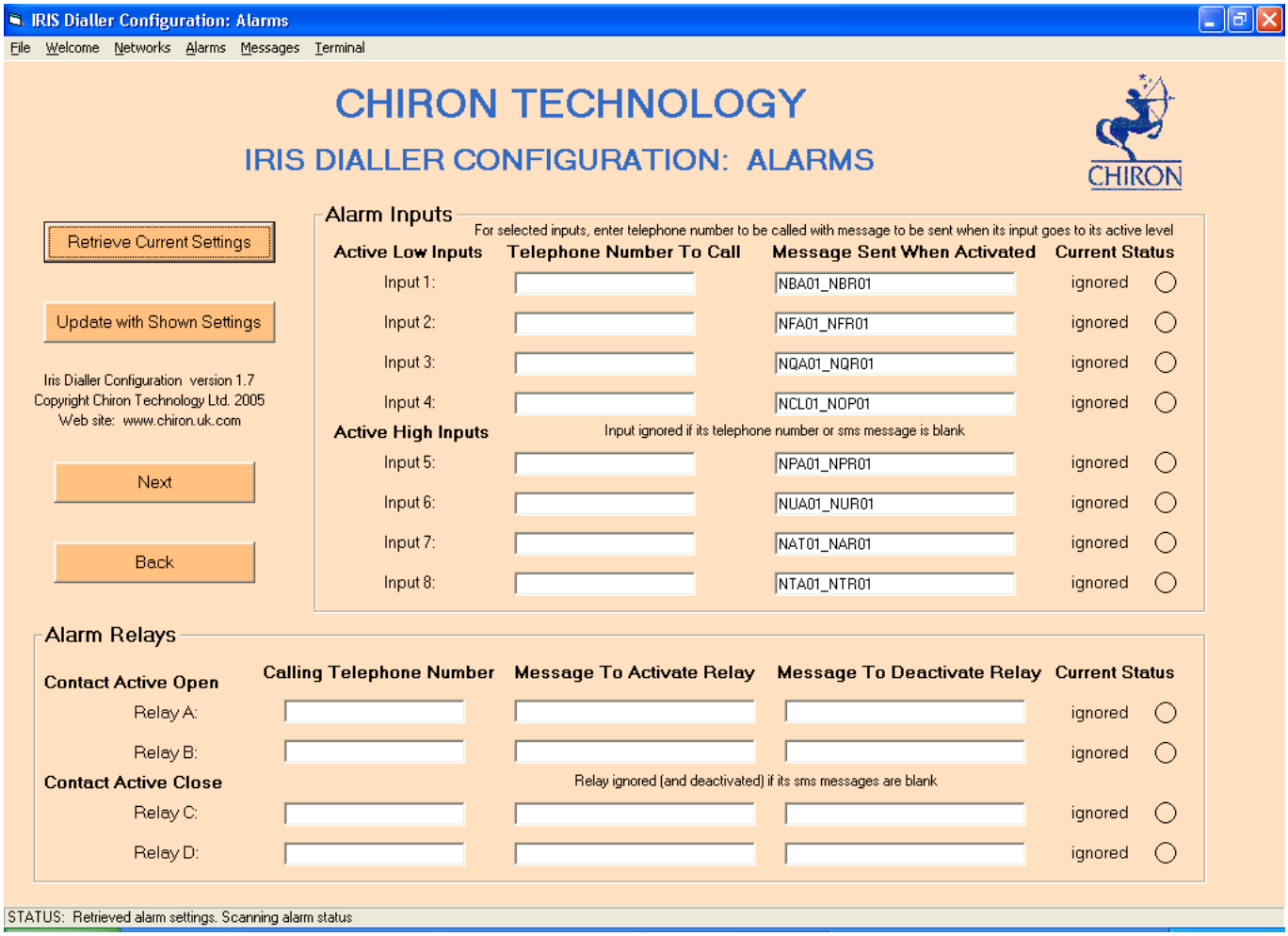
Ethernet: Shows if the Ethernet Physical Connection is made.
ISDN: Shows if the ISDN Layer2 is available

PSTN: Shows if the PSTN line Voltage (40VDC) is present.
GSM / GPRS: Shows if the SIM card has registered with the Network.

5. ALARMS PAGE:

These Configurations are only needed for IRIS Units that have Pin Alarms and relays fitted (820, 840, and 850).

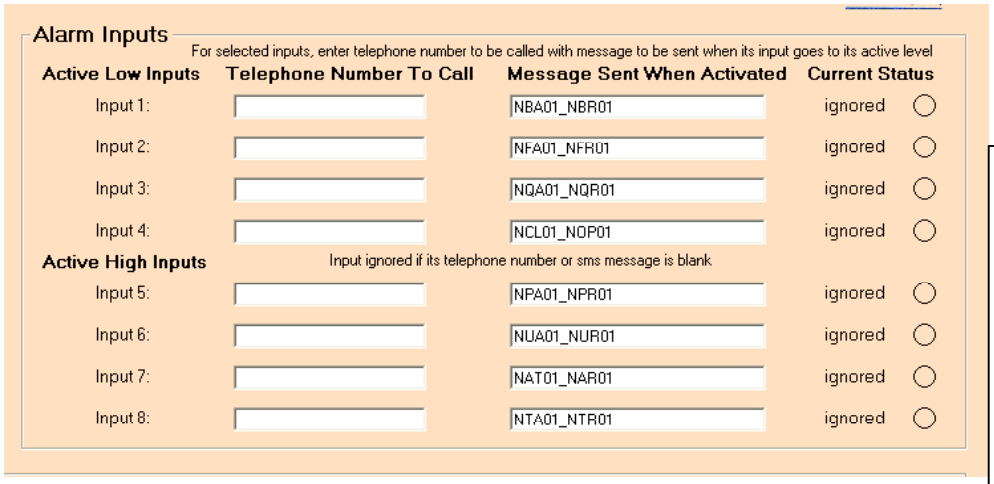
Now if you click the "NEXT" Button you will be presented with the following screen, all fields at first will be blank but if you do a "Retrieve Current Settings" you will have the following SIA Messages set as default:

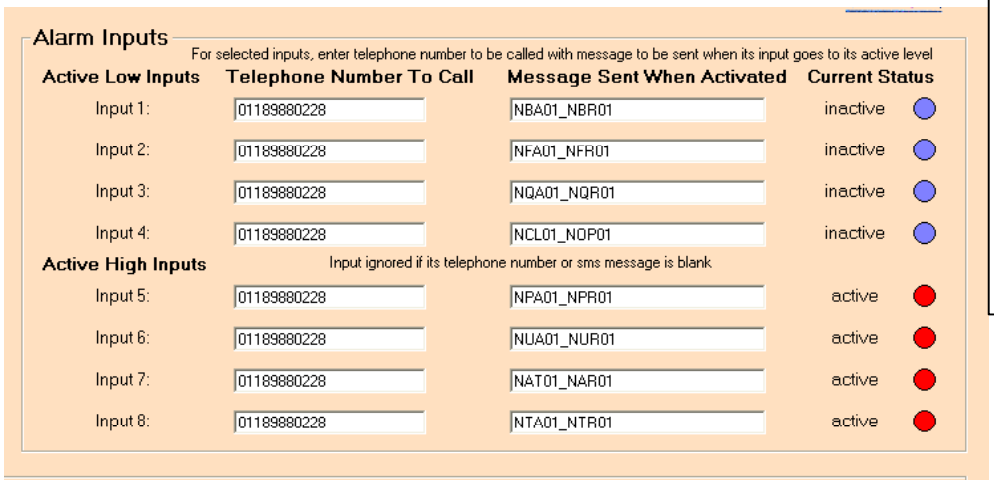


Again we will break this down into 2 modules, "Alarm Inputs" and "Alarm Relays".

5.1. Alarm Inputs:

This section is designed to allow the end user to use the Alarm Input to generate Alarm messages to the Polling Engine or a SMS receiver (Mobile), and also allow a view of the Current status of these alarm input.
By default the Alarm input are set to send a Default SIA message on activation of these inputs but these can be change by the Installer.





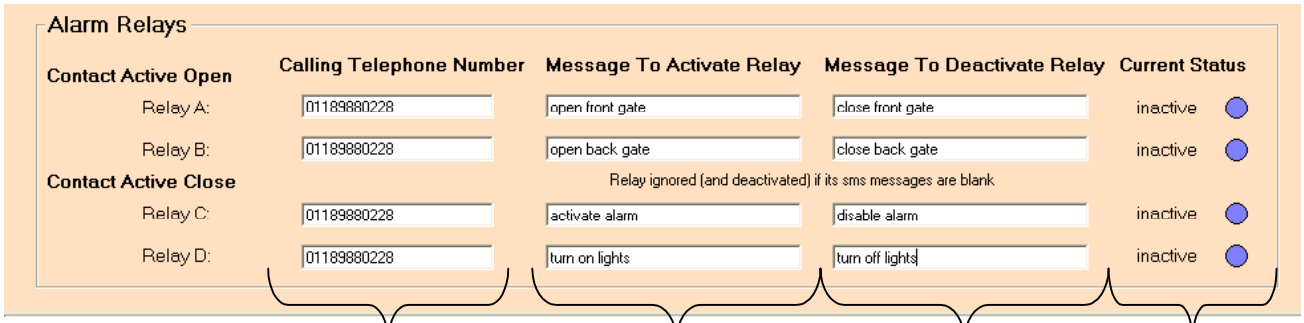
As you can see the Telephone number is enter in the relevant field for the alarm input you want to use (Normally a mobile number). If left blank the Message would be sent to the Polling Engine in the SIA Format.

The format is show as NBA01_NBR01 these are the Alarm for the open and closed states and are separated by the "_".

As seen in the second screen the Current status will show Blue for inactive and Red for Active and will change on the input being open or closed.

5.2. Alarm Relays:

The section is where you can configure the Alarm Relays Function and what SMS messages can be received to cause the Activation / Deactivation of the Relays.



This column is where you would enter the Telephone number of the SMS/mobile device sending the message to the IRIS unit.
This allows the use of CLI to confirm / restrict which SMS / Mobile device can set the Relays.

Here you will enter the SMS message that would activate the relevant relays. Case sensitive.

Enter the SMS messages that would deactivate the relevant relays. Case sensitive.

This Column shows the current status of the relays.

6. MESSAGES PAGE:

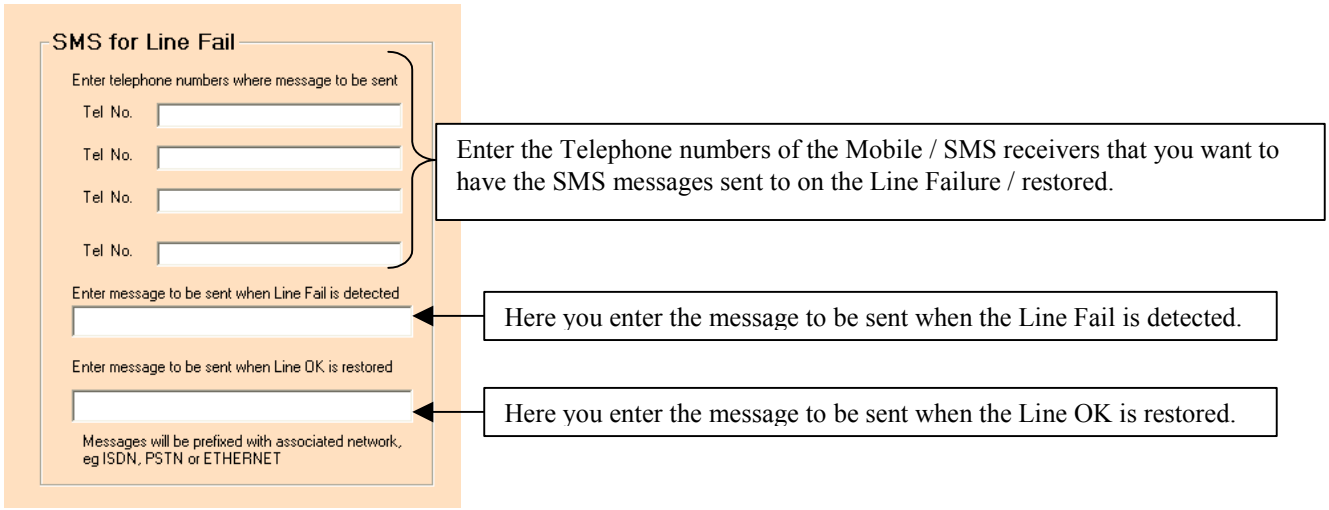
Now if you click the “NEXT” Button you will be presented with the following screen:

We will break this down into 3 modules being the “SMS for Line Fail”, “SMS for Alarm Call” and “Access Control”.

6.1. SMS for Line Fail:

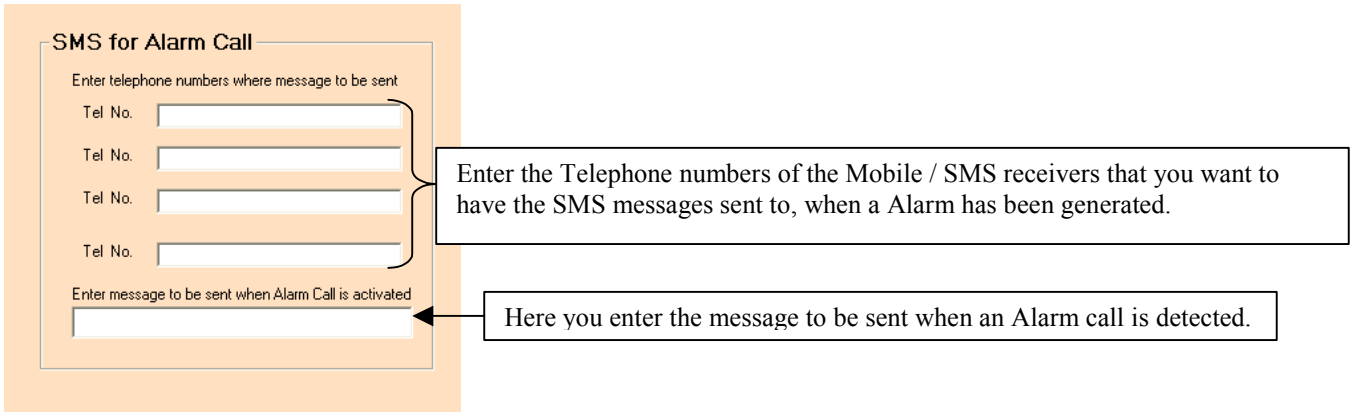
SMS for Line Fail is where you can setup the IRIS dialler to alert a number of SMS receivers of a line failure.

The IRIS unit monitors the communication paths that are available (i.e. ISDN, PSTN and Ethernet), and if any of these paths go into a fail state then the unit will generate Line Fail for that communication path.



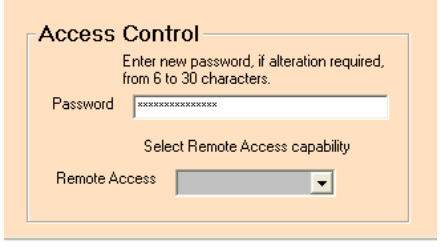
6.2. SMS for Alarm Call:

SMS for Alarm Call is where you can setup the IRIS dialler to alert a number of SMS receivers of an Alarm being generated, for either the Alarm panel or the Pin alarm input on the IRIS dialler.



6.3. Access Control:

The Access Control settings are where the end user can change the default Password (factory default) for configuration access (local or remote).
Also you have the option to disable the remote access function but we would advised never to do this, as this will disable Remote diagnostics.



7. TERMINAL PAGE:

Now if you click the “NEXT” Button you will be presented with the last screen:

The Terminal Screen allows the user to have a Terminal session to the IRIS dialler where you can enter AT commands to perform various functions (i.e. Diagnostic, traces, and configuration).
You can find a list of some of these commands on the following pages.

7.1. Hayes AT Commands:

AT & V	View current settings.
ATI3	Display Version information.
AT&F9	Default IRIS to Factory Default.
AT&K	Turns flow control off (required by the Galaxy RS232 module).
AT%A2=12	Tells the IRIS to communicate Serial to TCP/IP.
AT%G8=1	GSM Diagnostics.
AT%G10="**********"	Set APN name for provider example "orangeinternet".
AT%I1= 0	Disable Alarm and polling diagnostics.
AT%I1= 9	Enable Alarm diagnostics.
AT%I1=10	Enable polling diagnostics.
AT%I4=192168001001	Set the IRIS local Ethernet / IP address example 192.168.001.001.
AT%I6=11111	Sets TCP port number in IRIS for serial communications to 11111 – note any number can be used as long as the equivalent is set at the calling end – see below
AT%I7=11111	Sets the IRIS to call TCP port number to 11111 – note any number can be used as long as the equivalent is set at the remote end – see above
AT%I8=255255255000	Set the Local Ethernet / IP local subnet example 255.255.255.000.
AT%I9=192168001002	Set the local Ethernet / IP gateway example 192.168.001.002.
AT%I12=193168000001	Set the Ethernet / IP address of the Polling engine example 193.168.000.001.
AT%I13="name"	Set the Account name / PIN for this IRIS dialler.
AT%I22?	View DHCP IP address settings.
AT%L4=1	Set the Character Forwarding Ideal Timer to 50mS
ATS0=1	sets the IRIS unit to Auto Answer.
ATS37= 5 (1200 bps) 6 (2400 bps) 7 (4800 bps) 9 (9600 bps) 12 (19200 bps) 13 (38400 bps) 18 (57600 bps) 31 (115200 bps)	Instructs the IRIS to set the Baud rate "bps" on serial port for incoming calls

For IRIS software 2.15B and above.

AT%G29=0	Disables the PIN 7 & 8 short to 0V default and GSM Signal strength functions.
AT%G29=64	Enables the use of the PIN 7 to 0V to activate a default on the IRIS unit.
AT%G29=128	Enables the use of the PIN 8 to 0V to activate the GSM signal strength indication on the front LEDS.
AT%G29=192	Enables both PIN 7 & PIN 8 default and GSM signal strength test.