

Redcare Secure Mk3

Installation, Maintenance and Operation Manual

ModelSecMk3 Date: October 2012



Table of Contents

INTRODUCTION	1
MOUNTING AND WIRING	3
PROGRAMMING	7
CONFIGURATION	16
SECURE IP	39
DISPOSAL	40
GLOSSARY OF TERMS	41
SUPPORT	42

INTRODUCTION

Product Description



Figure 1 - Secure Mk3 unit

The Redcare secure Mk3 unit is a Dual path alarm signalling unit for transmitting alarm signals from a customer's alarm panel, via the Redcare ESP network to an Alarm receiving Centre (ARC). The unit can be used in the GPRS/PSTN configuration for "Redcare secure 2/3" service, or the IP/GPRS configuration for "Redcare secure IP" service.

The unit communicates via the Redcare Enterprise Services Network (ESP) and a valid TA account must exist for the unit to communicate. The TA account will have been populated with the serial number of the unit.

The unit has 16 general purpose alarm inputs, and 3 outputs, making it suitable for connection to most common alarm panels.



The unit is supplied already fitted with a Redcare enabled SIM card and is pre-configured to give GPRS connectivity.

The unit is supplied pre-configured to connect to the Redcare network servers over PSTN 0800 dial up numbers or through IP tunnelled networking.

Specifications

Size: 119mm X 158mm X 28mm.

Power: 9V – 30V

Current:

	Mean	Peak (during GPRS Tx)
IP/GPRS unit @12V	124mA	150mA
IP/GPRS unit @13.8V	106mA	127mA
IP/GPRS unit @24V	68mA	79mA
GPRS/PSTN unit @12V	107mA	134mA
GPRS/PSTN unit @13.8V	92mA	117mA
GPRS/PSTN unit @24V	64mA	78mA

When an Ethernet connection is made to the unit then the current will be higher. (i.e. a GPRS/PSTN unit that has Ethernet connected for the purpose of accessing the web console will typically have similar current draw to that of an IP/GPRS unit.

The above table assumes no add on daughter boards.

Alarm inputs:	16 General purpose inputs 1-16. (-0.5V – 30V)
Alarm threshold:	High >2.5V +/- 0.02V, and Low <1.5V +/- 0.02V.
Outputs:	3 X transistor outputs. 50mA max (active low). Internal 10K pullup.
	(Comms fail, RPS, CTRL)
RS232 port:	remote panel access (UDL) to some panel types.

RS485 port:	For future use.
Expansion bus:	For future use. (Dial capture Daughter board)
Configuration:	Using on board "Mode" and "Set" buttons, and or web console.
Processor:	Microchip dsPIC33EP512MU810 16 bit processor.
Wireless module:	Cinterion BGS2-E

MOUNTING AND WIRING

Removal of cover

The top cover can be removed by inserting a screwdriver blade into the 6 slots at the top of the unit, and levering the plastic outwards to release the 6 clips.

Regular access to the inside of the unit should not be required, although occasional access may be required to access the Sim card, or to add a daughter board for additional facilities. (i.e. dial capture board).

The unit supports all Redcare enabled Sim types. (Redcare O2 / Redcare BT mobile / Redcare Roaming). The Sim type is auto detected by the unit without need for any configuration change.

Mounting

The unit should be mounted inside the alarm panel, or inside a separate powered housing, using the sticky mounting pads supplied.

The back of the unit also supports DIN rail mounting for housings that support this type.

The supplied aerial should be mounted on top of the outside of the housing by removing the adhesive backing.



Figure 2 - Layout of Secure Mk3 terminals

Connection terminals

The Screw terminal blocks for the alarm inputs, and other connections, are removable making it easier to change out a unit should the need arise.

All terminal blocks are of the "Degson electronics" type, and suitable for use with a standard 3mm blade terminal screwdriver.



Figure 3 - Degson terminal Connectors

When fitting the terminal blocks, please ensure that they are fully seated to the circuit board.

redcare

Power connections

Power to the unit is via 2 screw terminals at the bottom left, with positive being nearest the edge of the board. The supply voltage range is 9V to 30V. The unit is designed to be connected to the Auxiliary power output on an associated alarm panel, or separate powered enclosure. Ensure the power source is sufficient as per the power requirements in the specification section. Te account at the alarm receiving centre (ARC) should be put "on test" before power up, as signals will be sent following initialisation

Alarm inputs

The unit has 16 alarm inputs which are presented on screw terminals along the bottom of the unit. These are labelled as Pin 1-16. The first 8 alarm inputs also each have 0V and a 'pos bus' terminal associated with them. By default the 16 alarm inputs required a positive condition to be presented to send an alarm. (Default = Positive applied). This can be changed using the PL, P1 or P2 button menu. See later section on configuration.

The alarm input terminal blocks are 4 way with inputs 1 - 8 on the last 2 connectors of the first 4 blocks, and inputs 9 - 16 are consecutive on the last 2 blocks.

Pos Bus

There are 4 pos bus terminals presented on the first 4 alarm blocks. These terminals are tracked together on the unit and can be used to provide more connection + points by wiring the first to the positive supply as per fig 4. The Pos Bus is also tracked to the expansion module sockets (J202 and J604) and may be further utilised with some future expansion modules.



Figure 4 - utilising the Pos bus rail

Outputs

Three transistor outputs are provided on screw terminals at the top of the unit, and these have an associated 0V terminal on the 4th connector on the block. The outputs are transistor driven and use an internal 10K resistor to give the high state.

By default, output 1 is comms Fail, output 2 is CTRL, and output 3 is RPS. See the further sections on outputs for a full explanation.

Serial data connections

RS232 TX & RX is also provided and RS485 A & B on another 4 way terminal block.

These ports allow serial alarm panel connection. See Panel Upload Download section.

PSTN connection

The telephone line connection is made to a 2 way terminal block at the top right of the unit.

The PSTN connection is not polarity sensitive. Connect the terminals to a standard PSTN line that supports DTMF outgoing access.



The PSTN connection is required for "Redcare secure 2" and "Redcare secure 3" service.

If the telephone line carries ADSL (broadband) then an additional ADSL microfilter will normally be required. Suitable hardwired ADSL microfilters are available from the Redcare web shop. www.Redcare.bt.com

The unit is supplied pre-configured with the necessary 0800 telephone numbers to connect to the Redcare network.

An additional 2 way block marked "Panel A B" allows for the PSTN line to be diverted out through an onboard bypass relay for carrying out PSTN dial in panel UDL.

Note the "Panel A B" connection purely presents the PSTN out via the units bypass relay. This is not a dial Capture connection.

Ethernet connection

The Ethernet port needs to be connected to a suitable Ethernet network for "Redcare secure IP" service using CAT5 cable. For most IP installations, a standard Ethernet patch cable can be used. The Ethernet port can also be used to connect to a local PC for advanced unit configuration. This connection may require an Ethernet Crossover cable as the unit does not auto detect cable type.

Aerial connection

Connect the supplied aerial to the MMCX connector on the top left of the unit. The aerial should be placed in a position that receives the best wireless coverage for the GPRS network being used. Carry out a survey with a signal strength tester to establish the best location.

If necessary, a selection of higher gain extension aerials can be purchased from the Redcare web shop at <u>www.btinstallershop.com</u>

PROGRAMMING

Programming Port

The programming port is used for upgrading the software on the unit using a USBNav programming dongle, or analysing the units de-bug information using a USB to TTL serial cable (3V3).

See section on serial de-bug for further information.

Unit initialisation

At power up the unit will display its current software level on the display.



Figure 5

In the above example the display cycles 60 -41- 60 -11 -06 indicating that the software level is K60P41A60P11 Release Candidate 06

The unit will then immediately attempt to connect to the Redcare platforms over the configured paths. The unit will typically complete path establishment in the following times from power up.

IP	40s
GPRS	50s
PSTN dial IP	40s

Figure 6 - time to commission paths after unit power up

The unit sends a "Unit Restarted" event (pin 984,1) over the first available path, followed by a "Unit restarted" restore (pin 984,3) within 2 seconds. The unit also sends the state of all 16 pins and the state of the PSTN voltage alarm and low Battery alarm. Sending these alarm states at start up help to ensure that the ARC alarm handling software reflects the true state of all pin alarms after start up.

Status displays

The unit clearly displays its status on the 2 X 7 segment LEDs. An additional green LED is provided at the side of the Ethernet connector to indicate packet flow on Ethernet.

In its normal working state, the unit will cycle displaying the signal strength (SS), pins in alarm state (AL) and Grade of service (Gd) in 1s steps. i.e. It will show "SS" followed by the received wireless signal strength from 0 - 31. The display may also occasionally display 99 as the signal strength if the unit's Cinterion wireless modem is unable to determine the current signal strength. For reliable GPRS operation the signal strength should be at least SS-12, or higher.

After the signal strength is displayed for 1s, the unit will then show "AL" followed by any alarm inputs 1-16 that are currently in the alarm state. If no pins are in the alarm state, then it will show AL followed by 00. The unit may also show Lb (low battery) if the supply voltage is below the supply threshold, and t1 or t2 if test modes t1 or t2 are active.

After the alarms status is displayed for 1s, the unit will then show "Gd" followed by the Grade of service i.e. Gd-04 for Secure IP, or Gd-02 for Secure 2 etc. The Grade of service can only be determined by the unit while in contact with the ESP. The unit will not show Gd until at least one path is commissioned and the polling rates can be retrieved from the ESP. The unit may show Gd followed by - - if the polling parameters cannot be determined.

-dBm	SS	
57 - 58	28	
59 - 60	27	
61 - 62	26	
63 - 64	25	
65 - 66	24	
67 - 68	23	
69 - 70	22	
71 - 72	21	
73 - 74	20	
75 - 76	19	
77 - 78	18	
79 - 80	17	
81 - 82	16	
83 - 84	15	
85 - 86	14	Borderline
87 - 88	13	Dordenine
89 - 90	12	
91 - 92	11	
93 - 94	10	
95 - 96	9	
97 - 98	8	
99 - 100	7	
101 - 102	6	Poor
103 - 104	5	
105 - 106	4	
107 - 108	3	
109 - 110	2	
111 - 112	1	

Figure 7 - Signal strength chart



Repeat from SS

Figure 8 - typical display cycling on a fully commissioned unit with a signal strength of 21, grade 04, and pin 4 in the alarm or open state.

Additionally "bL" (battery low), and t1 and t2 (test modes 1&2) may also be shown amongst the "AL" listing.

Path Status

The state of the communication paths is indicated by the LED dots on the displays.



Figure 9 - Path status dots

The dot on the left display indicates the status of the wireline path, and the dot on the right is the status of the wireless path.

The dot will be off when the communication path is unavailable. It will flash when the unit has obtained a suitable IP address during establishment, and will be steady on when the path has been fully commissioned.

The dots will also briefly blink off when data is being passed over that link. i.e. each time the unit is polled then a brief blink is seen on the associated path dot. Also alarm transmission will be seen as a brief blink on the associated path dot.

When fully commissioned over both paths, then both dots should be on.

The meanings of the dots are somewhat similar to the path status Leds on previous secure units, and they also share some commonality with the dots on a Redcare 5G STU. The mnemonic "Left Landline" helps as a reminder as per 5G STU.

Additionally, when representing the PSTN path, the left dot will blink to indicate "low PSTN voltage" and rapid flash to indicate PSTN communication to the platform is in progress.

	Left dot IP	Right dot GPRS	Left dot PSTN
Off	IP path to platform is not established	GPRS path to platform is not established	PSTN path has yet to establish, or last attempted PSTN call was unsuccessful
Flashing	An IP address has been obtained from	An IP address has been obtained from	PSTN is in the process of dialling the platform
1s on 1s off	the tunnel server.	the GPRS Radius server.	
Rapid flashing	N/A	N/A	PSTN call in progress and data is exchanging
250ms of			with the platform.
250ms Off			
On	IP path now established to the platform.	GPRS path now established to the platform.	Last PSTN call attempt successfully communicated with the platform
Blinking flash	N/A	N/A	PSTN voltage has failed. (<3.5V).
125 ms on			
875 ms off			
Data blink	Polling or alarm data is	Polling or alarm data is	N/A
25ms off	path	GPRS path	

Figure 10 - LED path status indicator dots

Of the 16 alarm pin inputs, all behave as general purposes inputs with the following exceptions.

Pin 4 has the RPS output associated with it. (see output 3 RPS)

Pin 11 acts as an ATS input as per the requirements of the BSIA form 175 document. This applies only when output 1 is set to BSIA mode (F8 = 1).

Pin 13 acts as an AC fail input and therefore has a default 7 minute delay before a pin 13 alarm is transmitted. It also has a 7 minute delay before a reset is sent. On presenting an alarm condition to pin 13, the units display will show the alarm immediately (AL 13) but 7 minutes of constant alarm condition needs to elapse before transmission. Similarly, a pin 13

October 2012 © British Telecommunications plc 2011

restore will immediately remove the AL 13 from the display, but 7 minutes of constant restore condition needs to elapse before transmission of the pin 13 restore.

The 7 minute time delay can be configured through the web console by typing a new value 0-7 in the "Mains Fail delay" field. If the "Mains Fail delay" is set to 0, then pin 13 can be used as a general purpose alarm input. (Subject to ARC acceptance).

Output 1

Output 1 acts as the communications fail output. The mode of operation can be selected through the F8 button menu. (see config section)

By default output 1 acts as a BSIA form 175 output. (F8=1). This allows the alarm panel to interrogate path faults as single path or dual path. That is, the output is normally low when both paths are OK.

By default the output will switch high, following either path fail, once the relevant 'debounce' time has expired. (Defaults 2 minutes for IP, 15 minutes for GPRS and 15 minutes for PSTN)

If ATS input (pin 11) is toggled during the fail period, i.e. (panel interrogation) then output 1 will either pulse low to indicate a single path failure, or remain high to indicate a dual path failure.

The unit also supports inverted mode BSIA175 operation by learning pin 11 to be positive removed.



Figure 11 - wiring to an alarm panel that supports single / dual path identification

Output 2

Output 2 normally acts as a control output. This can be switched on and off by issuing the relevant telemetry command from the ARC.

Telemetry request ID=0, Data=01 sets GPOP2 to low. ID=1, Data=01 sets GPOP2 high.

Output 2 can also become a secondary path fail output if F8 is set to 4.

In this case output 1 behaves as a primary path fail output, and output 2 as a secondary path fail output.



Figure 12 - connecting a relay module to CTRL output 2. Note that the outputs sink current when low

Output 3

Output 3 acts as a "Return Path Signalling" (RPS) output.

The output is normally low, but will rise high when input pin 4 is triggered. It will return low when an acknowledge signal is returned from the Redcare server (ESP). The output has a



minimum operation time of 1s. When the acknowledgement is received in less than 1 second after pin 4 is triggered then the output will remain high for 1s.

This output can be inverted through the web console if required.

CONFIRGURATION

The unit is supplied pre- configured with factory default values. For most installations no changes to the configuration are required.

The unit can either be configured by using the on-board Mode (M) and Set (S) buttons, or through a PC connected directly to the Ethernet port by surfing to the web console.

Only limited configuration is available through the button method, and more advanced configuration requires web console access. Most installations will require no configuration changes, the unit being supplied ready for installation at default.

A minority of sites may require minimal configuration changes at installation, and most of these will be achievable through the button config.

i.e.

- Change the PSTN predial string.
- Change the interface combination from GPRS/PSTN to IP/GPRS
- Change the IP mode from dynamic to static, and allocate a static IP address/subnet/and gateway address.
- Change the comms fail output type.

Etc.

Button configuration

The button configuration mode is entered by holding down the Mode (M) button for 3s.

The unit will then display the first menu item PL. (Pin Learn)

The configuration mode can be exited at any time, without saving changes, by holding down the M button for 5s.

If a user gets lost within the menus then repeatedly pressing M will return to the main menu and eventually reach the ?? save option.

When in the main menu, each press of the mode button will step to the next menu item down, and eventually return to the top of the menu. The full main menu options are shown in Fig. 13.

Pressing the set (S) button on any menu item will enter the sub-menu and allow the function to be changed. Depending on the menu item will depend on the structure of the sub-menu.

Typically, many menu items simply have the option to switch on or off. Where 0=Off and 1=On. In such menu items, the Set (S) button toggles the On / Off state, and the Mode (M) button returns to the main menu.

Some menu items have more options. i.e. F8 has 4 options to set the comms fault output type. On such menus, the Set (S) button enters the sub menu, the set (S) button increments through the 4 options with each press, then the mode (M) button returns to the main menu.

Some more complex menu items use the mode button to also step through additional levels in the sub menu. i.e. P1 sets the polarity of pins 1 to 8. The set button enters the P1 submenu. The S button toggles the polarity of pin 1, the M button increments to pin 2, where the S button can be used again to toggle the state. Each press of M will increment the pin, up to the last pin 8 and then return to the main menu.

A similar process is used on the menu items that allow IP addresses to be input. Set button (S) enters the sub menu. Set button (S) then increments the first digit with each press. Mode button (M) increments to the next digit, where button S can again be used to set this value. The M button will increment through all digits 1-12 in the IP address.

Some special characters are used on the displays. These are detailed in fig. 14.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.



Figure 13 - button configuration main menu options



Figure 14 - special display characters

Pin learn

The polarity of pins can be learnt by the installer selecting the PL option on the button menu.

Pressing Set (S) at PL will flash PL on the display to prompt "Are you sure?"

Pressing Set (S) again will cause the unit to read the state of all 16 inputs and assume the current state is the normal (no Alarm) state.

Pr will briefly be presented on the display as the new pin polarity config is written to flash memory. The unit will then restart.

There is no requirement to "save the changes" after PL.

Example – to learn the pin polarity :-

- Access the button config menu by holding M for 3 seconds. PL is displayed
- Press S the display now shows PL flashing for "Are you sure?".
- Press S the display shows Pr as the new polarities are stored.
- The unit restarts.

At any time the configuration mode can be exited by holding down M for 5 seconds

Test mode 1 (t1) Web console access

To allow access to the web console, the t1 menu must be entered and set to 1. Access to the web console is then allowed. There is no need to save the change on the unit, simply use the Set (S) button to toggle the t1 value to 1 and then press mode (M) to return to the t1 main menu option. The unit will now have a static IP address of 192.168.222.222 for the duration that t1 is set to 1. This does mean that a unit configured for IP/GPRS will be unable to communicate across the IP path while in test mode 1. A comms fail on the IP path will therefore be signalled to ARC after the normal time out (normally 3 minutes). The GPOP1 output will also operate after the time out (normally 4 mins) indicating single path fail. This is considered normal. The GPRS path will still function OK while in test mode 1. i.e the unit will respond to incoming polls over GPRs and can be manually polled from the ESPUI if required.

The PSTN path will also function OK while test mode 1 is enabled. i.e. new alarms presented to pins during test mode 1 can be sent over GPRS, or PSTN if required. They cannot be sent over IP.

Test mode 1 will automatically exit after 20 minutes.

Test mode 1 can manually be set back to 0 (off) at any time by the installer.

Test mode 1 will revert to off if the unit is restarted. i.e. after clicking on the "save" button on the web console.

See section on web console for further information.

At any time the configuration mode can be exited by holding down M for 5 seconds.

Test mode 2 (t2) Force alarms over secondary path.

For test purposes an installer can set the unit to send all alarms over the secondary path. This is achieved by accessing the t2 menu and setting the value to 1. There is no need to save the change on the unit, simply use the Set (S) button to toggle the t2 value to 1 and then press mode (M) to return to the t2 main menu option. Test mode 2 is now active and all new alarms will be sent over PSTN on a PSTN/GPRS configured unit, or GPRS on an IP/GPRS configured unit.

When test mode 2 is on, then incoming polls on the disabled path will still be responded to by the unit. Therefore the platform will not normally report a communications failure because of test mode 2 being active.

Test mode 2 will automatically exit after 20 minutes.

Test mode 2 can manually be set back to 0 (off) at any time by the installer.

At any time the configuration mode can be exited by holding down M for 5 seconds.

Example - to set test mode 2 on. All alarms sent over secondary path :-

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until t2 is displayed.
- Press S the display now shows the current t2 state. Where =0 is Off, and =1 is On.
- Press S to toggle the mode off and on. Where =0 is Off, and =1 is On.
- Press M to return to the t2 menu. (The test mode is now active)

At any time the configuration mode can be exited by holding down M for 5 seconds.

Pin Polarity (P1 & P2)

The polarity of the pins can manually be configured by the installer. This is additional to the pin learn function described earlier. (P1 = pins 1 to 8 and P2 = pins 9 to 16)

By accessing the config menu by holding (M) for 3 seconds, and then stepping with (M) to the P1 menu option, pressing set will enter the pin 1-8 sub menu.

Polarity of pin 1 is displayed, and can be toggled with the (S) button.

Further presses of (M) will step through all pins 1-8 showing their current polarity, and allowing each to be toggled to pos applied or pos removed with the (S) button. Once all 8 pins are set as desired then (M) will return to the main menu (P1). Note that any changes are not saved until the ?? option is accessed and (S) is pressed twice.

Pins 9 – 16 can be checked or changed in a similar way be accessing the P2 menu.

Note that the dot on the left display is on to distinguish pins 9-16 from 1-8. i.e. P2 menu has the left dot lit, while the P1 menu does not.

The unit will reboot after the changes are saved at the ?? menu.

October 2012 © British Telecommunications plc 2011

Example - to configure pin 4 to be positive removed:-

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until P1 is displayed.
- Press S the display now shows pin 1 and its current polarity.
- Repeatedly press M until pin 4 is shown with its current polarity.
- Repeatedly press S until the required pin 4 polarity is shown.
- Repeatedly press M to scroll through the rest of the pins and then to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Ethernet mode - Static / DHCP (F1).

The function 1 (F1) button menu allows the unit to be changed between dynamic (DHCP client) or Static mode.

When F1 is set to 0 (default) then the Ethernet port will attempt to obtain an IP address from a DHCP server on the LAN.

When F1 is set to 1 then the Ethernet port can be configured with a static address by using the F2 / F3 and F4 menu functions.

Example - To change the Ethernet mode:

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until F1 is displayed.
- Press Set the display now shows the current mode. i.e. =0 for DHCP, or =1 for Static.
- Press S to toggle the value to the required setting.
- Press M to return to the F1 main menu.
- Repeatedly press M to scroll to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Setting a static IP Address, Netmask and Gateway Address (F2 F3 and F4)

It the secure unit is to be connected to a LAN that requires the unit to have a static IP address (i.e. no DHCP server on the LAN) then this can be configured as follows.

Example - To set the unit to have the following address details:-

- ➢ IP Address = 192.168.1.56
- Subnet mask = 255.255.255.0
- ➢ Gateway = 192.168.1.254

Note that IP addresses are made up of 12 digits in 4 batches of 3, separated by dots. When the addresses are entered through the buttons they must be put in as 12 digit numbers, with zeros used to the left of each batch where necessary to pad out the addresses. i.e.

- > IP Address = 192168001056
- Subnet mask = 255255255000
- ➢ Gateway = 192168001254

The digit number (1-12) will be shown on the left display, and its value on the right display.

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until F2 is displayed.
- Press S to enter the address submenu the display now shows digit 1 and its value.
 i.e. 1 x.
- If necessary Press S to toggle the vale to the required setting. i.e 1 1
- Press M to step to digit 2. The display now shows digit 2 and its value. i.e. 2 x.
- If necessary Press S to toggle the value to the required setting. i.e 2 9
- Press M to step to digit 3. The display now shows digit 3 and its value. i.e. 3 x.
- If necessary Press S to toggle the value to the required setting. i.e 3 2
- Continue using m to step to the next digit and S to set its value. (up to digit 12)
- Press M to return to the F2 main menu.
- o If necessary use a similar process to set the subnet mask in the F3 menu.
- o If necessary use a similar process to set the gateway address in the F4 menu.
- Repeatedly press M to scroll to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Tunnel port (F5)

When used in IP mode, the unit will attempt to establish a connection to the Redcare servers by signalling on IP Port 443. For most LANs this will function correctly, but on some advanced LAN configurations the network manager may not allow outgoing access on port 443 but 10443 may have outgoing access. Where this is the case then the unit can be configured to use the alternative port 10443. The Redcare servers are set to accept both ports and so no changes are required other than on the unit's configuration.



The alternative port can be selected by accessing the F5 menu.

- 0 = 443 (default)
- 1 = 10443

Example. Changing the unit to use Port 10443

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until F5 is displayed.
- Press Set the display now shows the current setting. i.e. =0 for 443, or =1 for 10443.
- Press S to toggle the value to the required setting. i.e. =0 for 443, or =1 for 10443.
- Press M to return to the F5 main menu.
- Repeatedly press M to scroll to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Interface Combination (F6)

The unit is supplied configured for primary path GPRS with secondary path PSTN. (Secure 2 and 3)

The unit can be changed to primary path IP with secondary path GPRS. (Secure IP)

This is carried out by changing the value of F6 in the button config.

Example. Changing the unit to Secure IP.

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until F6 is displayed.
- Press Set the display now shows the current setting. i.e. =0 for GPRS/PSTN, or =1 IP/GPRS.
- Press S to toggle the value to the required setting. i.e. =0 for GPRS/PSTN, or =1 IP/GPRS.
- Press M to return to the F6 main menu.
- Repeatedly press M to scroll to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Note. The account on the Redcare servers must match the interface combination of the unit. Either IP/GPRS for secure IP, or GPRS/PSTN for secure 2/3.

October 2012 © British Telecommunications plc 2011

PSTN Pre-dial string (F7)

The unit is supplied with the necessary telephone numbers to dial the Redcare servers when in PSTN mode.

At some sites it may be necessary to add a predial number to the telephone number. i.e. a digit 9 to gain an outside line on a business line.

A predial string of up to 8 digits can be configured through the F7 menu.

Example. Changing the unit to dial 9 with a 1 second pause.

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until F7 is displayed.
- Press S to enter the predial sub menu. (the display shows the first predial digit 1 x)
- Repeatedly press S to step the first predial digit to 9.
- Press M to move to the second predial digit. (the display shows the 2nd predial digit 2 x)
- Repeatedly press S to step the 2nd predial digit to P for a 1 second pause.
- Press M to move to the 3^{rd} predial digit. (the display shows the 3rd predial digit 3 x)
- Set the 3rd predial digit to blank. (this indicates the end of the predial string).
- Press M to return to the F7 main menu.
- Repeatedly press M to scroll to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Tip. The predial special characters for * and # are shown on fig. 14.

Tip. P will give a 1 second pause.

Tip. The 'close square bracket' symbol tells the unit not to dial the leading zero on the telephone number. This is useful for using the unit outside of the UK, where an international dialling code may be required as the predial string.

i.e. A predial string of **0044]** may be used from some countries where 00 is the international access code.

Comms Fail output mode (F8)

Output 1 on the unit is a comms fail output. This is a transistor driven output that switches low. The unit has an integral 10K pull up resistor to pull the output high. See Outputs section for further information.

The output can be configured for different modes of operation through the F8 button menu.

Settings.

- F8 = 1 BSIA Form 175 mode
- F8 = 2 Standard comms fault 1 (either path failed)
- F8 =3 Standard comms fault 2 (both paths failed)
- F8 = 4 Output 1 = Primary path failed, Output 2 = Secondary path failed.

Example. Changing the unit to use output 1 to indicate "Both Paths Failed" (F8=3).

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until F8 is displayed.
- Press Set the display now shows the current setting. (as per list above)
- Press S to toggle the value to the required setting. i.e. =3 for both paths failed.
- Press M to return to the F8 main menu.
- Repeatedly press M to scroll to the ?? (save changes question marks)
- Press S and the ?? will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Load Defaults (Ld)

The Ld option on the menu can be used to set the unit back to factory default. That is all settings will be reset to their standard values. The unit will revert to a standard configured GPRS/PSTN unit or IP/GPRS unit as supplied.

Example. Setting the unit back to factory default.

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until Ld is displayed.
- Press S and the Ld will flash to prompt "Are you sure?"
- Press S and the unit will briefly display Pr (program) as the changes are written to flash. The unit will then restart.

At any time the configuration mode can be exited, without saving changes, by holding down M for 5 seconds.

Web console

To access the web console a PC needs to be connected to the Ethernet port. A cross over Ethernet cable maybe required. Check for the green LED to the left of the Ethernet connector, blinking with the passing of data. This ensures the correct connectivity.

Configure the PC to have a static IP address within the range 192.168.222.xxx.

i.e. set the PC to have the following static details:-

IP address = 192.168.222.10

Subnet mask = 255.255.255.0

Gateway = 192.168.222.222.

- Access the button config menu by holding M for 3 seconds.
- Repeatedly Press M until t1 is displayed.
- Press S to access the submenu
- Press S to toggle the setting to 1 (web console enabled =1)
- Press M to return to the main menu.

This enables the web console access, and gives the unit a temporary static IP address of 192.168.222.222 for the duration that t1 is enabled. Open the web browser, i.e. internet explorer, and surf to <u>http://192.168.222.222</u>.

Web console Log in screen

/elcome erver!	to the Configuratio
ase enter your Lo	gin Credentials and hit submit.
User Name:	
Password:	Submit

Figure 15 - Web console Login Screen

Log in with username = admin, password = 348admin

Web console main menu screen

Quick Start	Welcome to the Configuration
tatus and Log	Server!
Logout	This web page is being served by the communicator at the address specified. To configure a specific item select from the list to the left.
	To configure a specific item select from the list to the left.

Figure 16 - Web console Main Menu

The menu has 3 items for simplicity. "Quick Start", "Status and log", and "Logout"

Firmware: AdDP11-02 Hardware: 20510001 Bootbad: K60P41 Web Version: 0.05 Account Information Account Information Account Information 0 Account Information 0 Account Information 0 Interface Select: (Wreless - Dialup) Wireline 5 Server 3: 5 Server 3: 5 Server 3: 5 Server 3: 12 Server 4: 1 Turnel Port: 443 PAddress: 192.1610.040 Subnet Mask: 255.255.0 Gateway Address: 192.1610.04 Subnet Mask: 255.255.0 Gateway Address: 192.1610.01 Premary DMS: 0.0.0 Wireless 5 Server 3: 192.1610.01 Server 4: 10.18.43.195 Server 3: 10.18.43.195 Server 4: 10.18.43.195 Server 3: 10.18.43.11 Server 4: 10.18.43.195	ter the desired settir	igs then hit the S	ave Config but
Primarue: Pader 1: u2 Hardware: 205-10001 Bootbad: 600 Account Information 400 Account Information 400 Account Information 0.00 Management Port: 900 Interface Select: (Wreless = Dialup) Wireline 2239 139 2 Server 3: 62239 139 2 Server 3: 12 161 0.04 Server 3: 12 161 0.01 Server 3: 10 18 4.3 195 Server 3: 10 18 4.3 195 Server 4: Preset 1 Pasacome uk.com Pasacome uk.com Server 3: 10 18 4.3 195 Server 4: Preset 1 Pone Number 1: 10 18 4.3 15		400011 00	,,
Notices Product Beobad: x60041 Web Version: 0.0 Account Information Account Number: Agency ID: 0 Management Port: 9000 Interface Select: (Wireless = Dialup) Server 1: 62291192 Server 2: 622313130 Server 3: 6223133130 Server 4: 7 Tunnel Port: 443 PAddress: 192.168100.1 Server 3: 1018.43211 Server 4: 1018.43211 Server 4: 1018.43195 Server 4: 1	Firmware:	A60P11-02	
Web Version: 0.0 Save Config Account Information Account Number: 0 Agency ID: 0 Management Port: 900 Interface Select: (Wreless - Dialup) Server 1: 62.238.139.2 Server 2: 62.238.139.2 Server 3: 53.44 w LAN DHCP enabled: DHCP enabled: 12 P Address: 192.168.100.40 Subnet Mark: 252.59.0 Gateway Address: 192.168.100.1 Server 3: 192.168.100.1 Server 4: 10.143.195 Server 3: 192.168.100.1 Server 4: 10.143.195 Server 3: 10.143.195 Server 4: 10.143.195 Server 3: 10.143.195 Server 4: 10.143.195 Server 4: 10.143.195 Server 4: 10.143.195 Server 3: 10.143.195 Server 4: 10.143.195 Ponen Number 1: 00000172.65	Bootload:	K60P41	
Seve Config Account Information Account Information Account Number: Agency ID: 0 Management Port: 9000 Interface Select: Wireline Server 3: Server 3: Server 3: Server 3: Server 4: Turnel Port: 443 ♥ LAN DMCP enabled: IP Address: 192.165.100.40 Subnet Mask: 255.25.25.0 Gateway Address: 192.165.100.1 Premary DMS: 0.0.0 Wireless Server 3: Server 4: User Name: User Name: Server 3: Server 4: User Name: Passord: Arbri: Server 3: Server 4: Pone Number 1: Pone Number 1: Pone Number 1: Pone Number 1: <td>Web Version:</td> <td>0.08</td> <td></td>	Web Version:	0.08	
Seve Config Account Information Account Number: 0 Management Port: 9000 Interface Select: Wireline Server 3: Server 4: Turnel Port: 443 ♥ LAN DRCP enabled: IP. Address: 12 L610.04 Subnet Mask: 255 255.50 Gateway Address: 12 L610.01 Premary DMS: 00.0 Wireless Server 1: 10 L8.43195 Server 2: Server 3: Server 4: User Name: Passcomm uk.com Passcomm uk.com Server 3: Server 4: Preset1 1 Raaming Sees Limit: Server 3: Server 4:			
Account Information Account Information Account Number: 0 Management Port: 900 Interface Select: (Wreless - Dialup) Wireline Server 3: Server 3: 62239 139 2 Server 3: 1000 Subnet Mask: 255 255 250 0 Gateway Address: 122 168 100 49 Subnet Mask: 255 255 250 0 Gateway Address: 122 168 100 1 Server 3: 101 84 3195 Server 4: 101 84 3195 Server 4: 101 84 3195 Server 4: 101 84 3195 Server 1: 101 184 3195 Server 1: 101 84 3195 Server 1: 101 8		Save Config	
Account Number: 0 Management Port: 9000 Interface Combination Interface Select: (Wreless - Dialup) ♥ Wreline Server 1: 62239 139 2 Server 2: 62239 139 2 Server 3: 62239 139 2 Server 3: 62239 139 0 Server 3: 62239 139 0 Server 4: 7 DPC enabled: 7 P Address: 152 168 100 40 Subnet Maki: 255 255 25 Server 3: 1018 43 0 LAN DPC enabled: 7 P Address: 152 168 100 1 P Address: 152 168 100 1 Secondary DNS: 00 0 0 Wireless Server 1: 1018 43 211 Server 3: 1018 43 195 Server 4: 1018 43 195 Server 4: 1018 43 195 Server 4: 1018 43 195 Server 4: 1018 43 195 Server 1: 1018 43 195 Server 4: 1018 43 195 Server 3: 1018 43 195 Server 4: 1018 43 195 Server 4: 1018 43 195 Server 1: 1018 43 195 Server 4: 1018 43 195 Server 5: 1018 43 195 Server 5: 1018 43 195 Server 6: 1000 (milliseconds) Dial Up Paedal Num: Phone Number 1: 0000977365 Phone Number 1: 0000977365 Phone Number 1: 0000977365 Phone Number 1: 0000977365 Dial Up Paedal Num: Phone Number 1: 0000977365 Dial Primeut: 1000 (milliseconds) Dial Primeut: 2 (milliseconds) Dial Primeut: 1000 (milliseconds) Dial Primeut: 2 (milliseconds) Dial Primeut: 2 (milliseconds) Dial Primeut: 1000 (milliseconds) Di	Account Information	'n	
Agercy ID: 0 Management Port: 900 Interface Select: (Wireless = Dialup) Server 1: 62.293 139 2 Server 2: 62.293 139 130 Server 3: 5 Server 4: Tunnel Port: Tunnel Port: 43 DACP enabled: 10 IP Address: 125.65 100.40 Subnet Mask: 255.25 2.50 Gateway Address: 122.168 100.1 Server 3: 10.18.43 211 Server 4: 10.14 136 Server 3: 10.18.43 211 Server 4: 10.14 136 Server 3: 10.18.43 156 Server 4: 10.14 136 User Name: 10.18 43 156 Server 3: 10.18 43 156 Server 1: 10.18 43 156 Server 3: 10.14 136 Server 4: 10.18 43 156 Dial Up Server 3: Server 3: 10.18 43 156 Server 4: 10.18 43 156 Dial Up Server 3: Server 3: 10.18 43 156 Server 3:	Account Number:	0	
Interface Select: [Wireless = Dialup] Interface Select: [Wireless = Dialup] Server 1: 62.293 139 2 Server 2: 62.293 139 130 Server 3: 52.293 139 130 Server 4: 1 Tunnel Port: 443 PA ddress: 122.66 100.40 Subret Mask: 122.66 100.1 Secondary DMS: 122.166 100.1 Secondary DMS: 101.84.3211 Server 3: 101.84.3195 Server 4: 101.84.3195 Server 3: 101.84.3195 Server 1: 101.84.3195 Server 1: 101.84.311 Server 2: 101.84.3195 Server 3: 101.84.3195 Server 1: 101.84.3195 Server 1: 101.84.3195 Server 1: 101.84.3195 Server 1: 101.84.3195 Se	Agency ID: Management Ports	0	
Interface Combination Interface Select: (Wireless - Dialup) ♥ Wireline 58/201 Server 1: 62.293 139 130 Server 3: 5 Server 4: - Turnel Port: 443 ♥ IAN 0/00 enabled: IP Address: 192.163 100.40 Subet Mask: 255.255.25 Gateway Address: 192.163 100.41 Sever 4: 0.00 Wireless 56.00.1 Server 1: 10.16.43.211 Server 2: 10.14.3.195 Server 3: 58.00.0 Server 4: 0.00 Wireless 58.00.00 Server 4: 0.00.0 User Name: bel@ved.care bt.com Passord: 11.84.3.195 Server 2: 10.18.43.195 Server 3: 58.000077283 Phone Number 1: 0000077283 Phone Number 1: 0000077283 Phone Number 1: 0000077283 Phone Number 1: 0000077285 Voltage Ratice 30 (seconds) Voltage Ratid Dela	Management Port.	3000	
Interface Select: ((winess + Daup)) Wireline Server 3: Server 3: Server 4: Turnel Port: 443 × DAC PAddress: 192.06300.00 Subert Mask: 255525250 Gateway Address: 192.16310.04 Subert Mask: 255252550 Gateway Address: 192.16310.01 Permary DMS: 0.000 Wireless Server 1: 1018.43211 Server 3: Server 4: User Name: User Name: Mascomnuk.com Sarver 4: User Name: Server 1: 1018.43195 Server 1: Sarver 3: Sarver 1: Roaming CSQ Limit: Paamings Sess Limit: Bild Up Server 1: Server 2: 1018.43195 Server 3: Server 4: Predal Num: <tr< td=""><td>Interface Combina</td><td>tion</td><td>-</td></tr<>	Interface Combina	tion	-
Wireless Server 3: 62239 139 2 Server 3: 1216 100 49 DkCe enabled: 1 IP Address: 122 168 100 49 Subnet Mask: 255 255 25 Gateway Address: 122 168 100 1 Premary DMS: 100 0 Wireless 58 erver 3: Server 4: 1018 43 195 User Name: 1018 43 195 Server 4: 1018 43 195 Server 3: 1018 43 195 Server 4: 1018 43 11 Reaming CSQ Limit: 19 Reaming CSQ Limit: 19 Server 3: 1018 43 211 Server 4: 1018 43 211 Predal Num: 1000917265 User Name: 1000917265 User Name: 10000917265 User Name:	Interface Select:	(Wireless + Dial	up) M
Server 3: 62.239 139 2 Server 3: 62.239 139 130 Server 3: 62.239 139 130 Server 3: 62.239 139 130 Server 4: 6 DRCF enabled: 1 P Address: 122 165 100 40 Subnet Mask: 125 525 0 Gateway Address: 122 165 100 1 Primary DMS: 100 0 ØWreless 122 165 100 1 Server 3: 10 18 43 195 Server 4: 10 18 43 195 Server 3: 10 18 43 195 Server 4: 10 18 43 195 Server 3: 10 18 43 195 Server 4: 10 18 43 195 Predal Run: 10 18 43 195 Phone Number 1: 10 18 43 211 Server 3: 10 18 43 211 Server 4: 10 18 43 211 Predal Run: 10 18 43 195 Phone Number 1: 10 18 43	Wireline		
Server 3: Server 4: Turnel Port: 44 ♥ AN DHCP enabled: IP Address: Server 4: Turnel Port: 44 ♥ IAN DHCP enabled: IP Address: Server 4: Server 3: Server 1: 10 18 43 211 Server 2: 10 18 43 211 Server 2: 10 18 43 211 Server 2: 10 18 43 211 Server 2: 10 18 43 211 Server 3: Server 4: User Name: Issift of Call and Server 4: Issift of Call and Server 4: Presete 1 ♥ Server 4: Presete 1 ♥ Server 4: Predia Nun: Phone Number 1: Did Up Server 4: Predia Nun: Phone Number 1: Otopo172263 Server 4: Predia Nun: Phone Number 1: Otopo1 1: Server 3: Server 4: Panel Type: Panel Panel Type: Issift of Window: Of Line Time: Issift of Window: Center Jurpose Duput Sense (tick for high in alorm Number) Call Issift Issift of Call And Server 3: Server 5: Server 4: Panel Type: Panel Panel Type: Issift of Window: Center Jurpose Duput Sense (tick for high in alorm Number) Center Jurpose Outputs General Purpose Outputs General Pur	Server 1:	62.239.139.2	
Server 4: Turnel Port: 43 ♥ LAN DHCP enabled: [7] IP Address: 122.163.100.40 Subnet Mask: 2555255.0 Gataway Address: 122.163.100.1 Premary DHS: 0.000 Wireless Server 1: 10.18.42.11 Secondary DHS: 0.000 Wireless Server 2: 10.18.42.11 Server 3: 10.18.42.11 Server 4: 10.18.42.11 Server 4: 10.18.42.11 Server 3: 10.18.42.11 Server 4: 10.18.42.11 Server 4: 10.18.42.11 Server 4: 10.18.42.11 Server 3: 10.18.42.11 Server 4: 10.18.42.11 Server 4: 10.18.42.11 Server 7: 10.18.43.195 Server 7: 10.18.43.195 Server 7: 10.18.43.195 Server 7: 10.18.43.195 Server 7: 10.18.43.195 Server 9: 10.18.43.195 Server 9: 10.18.43.195 Server 1: 10.18.43.195 Server 1: 10.18.43.195 Server 2: 10.18.43.195 Server 2: 10.18.43.195 Server 3: 20.000377263 Phoela Number 1: 000377263 Phoela Number 1: 000377263 Phoela Number 2: 000377263 Phoela Number 2: 000377265 Udtage fail Delay: 120 (seconds) Voltage fail Delay: 120 (seconds) Off Line Timeout: 1500 (minutes) Mann 5 al Time: 7 (minutes) Mann 5 al Time: 7 (minutes) Ceneral Purpose Uput Sense (Lick for High In alarme Input 1-8: 7 0 7 0 7 0 7 0 0 0 0 0 0 0 0 0 0 0 0	Server 2:	62.239.139.130	
Tunnel Port: 443 UAN DPCP enabled: ♡ IP Address: 152.163.100.49 Subnet Mask: 255.255.25.0 Gateway Address: 152.163.100.1 Primary DMS: 102.66.100.1 Primary DMS: 00.00 Wireless 58.000.00 Server 3: 10.18.43.211 Server 4: 00.00 Uder Name: best@red.care.bt.com Password: ******* APM: 10.18.43.195 Server 4: ****** Baaring CSQ Limit: 19 Raaming CSQ Limit: 10.18.43.195 Server 1: 10.18.43.195 Server 3: 10.18.43.195 Server 4: ******* Prediat Nun: ************************************	Server 4:		
LAN DHCP enabled: P Address: P Address: DHCP enabled: P Address:	Tunnel Port:	443 💌	
DHCP enabled: □ IP Address: 12:16:100.40 Subret Mark: 125:25:25:0 Gateway Address: 12:16:100.1 Primary DMS: 10:20.0 Wireless: 12:16:100.1 Secondary DMS: 10:20.0 Wireless: 12:16:100.1 Server 1: 10:18:43:211 Server 2: 10:14:31:95 Server 3: Server 4: User Name: Les@redcare.bt.com Password: •••••••• Roaming: Prises 1 ♥ Roaming: 10:18:43:195 Server 3: 10:14:3:195 Roaming CSQ Limit: 19 Roaming CSQ Limit: 10:18:43:195 Server 1: 10:18:43:195 Server 2: 10:10:40:211 Server 3: Server 4: Predial Nun: Predial Nun: Phone Number 1: 0000917265 Server 4: Predial Nun: Phone Number 1: 0000917265 Voltage Fail Delay: 10:14:00:0000000000 Voltage Fail Delay:<	LAN		
IP Address: 252 165100.40 Subnet Mask: 255 255 255 0 Gateway Address: 152 165100.1 Primary DNS: 192 165100.1 Secondary DNS: 192 165100.1 Secondary DNS: 100.0 Wireless 101.843.211 Server 1: 10.18.43.195 Server 3: 10.18.43.195 Server 1: 10.18.43.195 Server 2: 10.18.43.195 Server 3: 10.18.43.195	DHCP enabled:		
Subnet Mask: Gateway Address: 52 255 255 25 Gateway Address: 152 168 100 1 Premary DMS: 152 168 100 1 Secondary DMS: 152 168 100 1 Server 1: 101 84 3 195 Server 3: Server 4: 101 84 3 195 Server 3: Server 4: 101 84 3 195 Server 3: Server 4: 101 84 3 195 Server 3: SM Override: Reaming CSQ Limit: 19 Reaming CSQ Limit: 101 84 3 195 Server 1: 101 84 3 195 Server 3: Server 1: 101 84 3 195 Server 3: Server 3: Server 4: Phone Number 1: 101 84 3 211 Server 3: Server 3: Server 4: Phone Number 1: 10000173265 User Number 1: 1000017	IP Address:	192.168.100.40	
Gateway Address: 192.163.100.1 Primary ONS: 192.163.100.1 Secondary DNS: 00.00 Wireless Server 1: 10.16.43.211 Server 2: 10.16.43.211 Server 4: 10.16.43.211 Server 4: 10.16.43.211 Server 4: 10.16.43.215 Server 4: 10.16.43.195 Server 1: 10.16.43.195 Server 1: 10.16.43.195 Server 3: 10.16.43.195 Server 4: 10.16.45.19 Server 4: 10.16.45.19 Server 4: 10.16.45.19 Serve	Subnet Mask:	255.255.255.0	
Primary DNS: 192.163.100.1 Secondary DNS: 00.00 Wireless 00.00 Server 1: 10.15.43.211 Server 2: 10.18.43.195 Server 3: Server 4: Server 4: Server 4: User Name: bst@Textcom Password: VII sanscomm uk.com APN: VII sanscomm uk.com Smart Reaming: DSI SM Overnde: Presetal I w Roaming CSQ Limit: 19 Roaming CSQ Limit: 19 Roaming CSQ Limit: 19 Server 3: Server 3: Server 4: Predial Num: Phone Number 1: 00009173263 Phone Number 2: 00009173265 User Al Delay: 120 Voltage Ratio 30 Voltage Ratio 30 Delay: 120 Panel PN M Panel PN M Panel Nume: 7 Panel Nume: 10 Problay: 10 <td>Gateway Address:</td> <td>192.168.100.1</td> <td></td>	Gateway Address:	192.168.100.1	
Secondary DNS: 0.00 Wretes Server 1: 10.18.43.211 Server 3: Server 4: User Name: 10.18.43.211 Server 4: User Name: 10.18.43.211 Server 4: Server 4: Server 4: Server 5: Server 5: Server 5: Server 1: 10.18.43.156 Server 7: 10.18.43.156 Ser	Primary DNS:	192.168.100.1	
Wireless Uteless Server 3: Uteless 100 Server 3: Uteless 100 Server 3: Uteless 100 Server 3: Version 200 Server 3: Uteless 100 Ser	Secondary DNS:	0.0.0.0	
Server 1: 10.16.4.211 Server 2: 10.18.43.195 Server 3: 10.18.43.195 Server 4: 10.18.43.195 Server 3: 10.18.43.195 Server 1: 10.18.43.195 Server 3: 10.18.43.195 Server 4: 10.18.43.195 Predal Run: PhedMann: Phoen Number 1: 0000917365. Phoen Number 1: 0000917365. Uder Name: 10.18.43.195 Server 4: Predal Run: Phoen Number 1: 0000917365. Uder Name: 10.000017365. Uder Name: 10.000017365. Off.Line Timeout: 10.0000017365. Dalay: 10.0000017365. Off.Line Timeout: 10.00000000000000000000000000000000000	Wireless		
Server 2: 10 18.4 195 Server 3: Server 4: User Name: well@redcare bt.com Password: minutes AfN: off tamscomm.uk.com Smart Roaming: Prevent 1.** Raaming CSQ Limit: 19 Raaming CSQ Limit: 19 Roaming CSQ Limit: 19 Server 1: 10 18.43 195 Server 2: 10 18.43 195 Server 2: 10 18.43 211 Server 3: Server 3: Server 4: Predal Num: Phone Number 1: 0000917265 User Name: redcare3@btntemtcom Password: minutes? Voltage Fail Delay: 120 (seconds) Voltage Ratcre 30 (seconds) Off Line Timeout: 1500 (minutes) Mains Fail Time: 7 (minutes) Off Line Timeout: 1500 (minutes) Off Line Timeout: 1500 (minutes) Off Line Timeout: 1500 (minutes) Off Line T	Server 1:	10.18.43.211	
Server 3: Server 4: User Name: Password: Password: Server 4: Smart Reaming: SIM Overnide: Presel 1 with Reaming: Simart Reaming: Simart Reaming: Simart Reaming: Simart Reaming: Server 1: 10 1843 195 Server 2: Server 3: Server 3: Server 3: Server 3: Server 4: Prodal Num: Phone Number 1: 0000917265 Ustage Fab Delay: Valtage Fab Delay: Valtage Ratice Delay: Valtage Ratice Delay: OF CFall Time: Input 1-8: Input 1-9:	Server 2:	10.18.43.195	
Server 3: Server 1: Mark Name: Mark Courride: Mark Courride: Server 1: Mark Courride: Predial Num: Phone Number 1: Mark Courride: Predial Num: Phone Number 1: Mark Courride: Mark Courride: Passord: Wark Courride: Passord: Wark Courride: Passord: Mark Courride: Mark Couride: Mark Courride: Mark Courride: Mark Courride: Mark	Server 3:		
Order Kumin: ■ Server 2 (1) Password: ■ Server 2 (1) SIM Override: Present 1 (*) Roaming: 2 SIM Override: 19 Roaming: CSQ Limt: 19 Roaming: CSQ Limt: 10 Server 1: 10 10 10 Server 3: Server 4: Predial Run: Predial Run: Phone Number 1: 0000917265 Uder Name: redcare@Subintmet.com Password: ■ Voltage Fail Delay: 120 Voltage Fail Delay: (seconds) Delay: Panel Panel Ymmets Panel Ymmets Mains Fail Time: 7 (minutes) General Purpose Duput Sense (tick for high in alarm 1000 (minutes) Wreline: 2 (minutes) Uine Fault Debounce Time Y Y Y Y Y Y Wreline: 15 (minutes) Dial IP: 15 (minutes) General Purpose Output5 FOP 3: FOP 9 (Fot for acrene habl)	Server +:	tost@rodopro.bi	00m
APY: vfl #anscomm.uk.com Smart Reaming: V Smart Reaming: Preset I v Roaming CSQ Limit: 19 Roaming CSQ Limit: 19 Roaming CSQ Limit: 19 Roaming CSQ Limit: 19 Server 1: 10.18.43.195 Server 2: 10.18.43.195 Server 3: Server 3: Server 3: 00009172263 Phone Number 1: 00009172265 User Name: redcare@Ebatemet.com Password: 10 Voltage Ratcre 30 Voltage Ratcre 30 Off Una Timeout: 1500 Off Una Timeout: 1500 Off Lima Timeout: 1500 Low C Fail Time: 1 Input 1-0: V V V V V V Input 9-16: V V V V V V <tr< td=""><td>Password:</td><td>test@redcare.b</td><td>.com</td></tr<>	Password:	test@redcare.b	.com
Smart Roaming:	APN:	vf1.transcomm.u	k.com
SIM Override: Presete 1 ♥ Raming CSQ Limit: 9 Roaming Sess Limit: 964 Dial Up 9 Server 1: 10.18.43.195 Server 2: 10.18.43.195 Server 3: 9 Predial Run: 9 Phone Number 1: 0000917265 Phone Number 1: 0000917265 Voltage Fail Delay: redcara@Sybtemmet.com Passer 10.000917265 Voltage Fail Delay: redcara@Sybtemmet.com Voltage Fail Delay: (seconds) Voltage Fail Delay: (seconds) Pasel 9000 (milliseconds) Off Line Timeout: 150 (minutes) Mains Fail Time: 7 (minutes) General Purpose Input Sense (tick for high in alarm Input 9-16: Y Y Y Y Y Vireline: 2 (minutes) Dial IP: 15 (minutes) Dial IP: 15 (minutes) GROP 1: 163 JA Form 175 (minutes) GROP 2: Relay 2 Contel (minutes) Gropp 3: PF Y (fret for acreace head)	Smart Roaming:		
Raaming CSQ Linit: 19 Raaming CSQ Linit: 19 Dial Up 5640 Server 1: 10.18.43.115 Server 2: 10.18.43.211 Server 3: 5 Server 4: 10.19.53.211 Server 4: 10.18.43.211 Server 4: 10.19.53.211 Server 4: 10.0009172263 Phone Number 1: 00009172263 Phone Number 1: 00009172263 Phone Number 1: 00009172263 Voltage Fail Delay: 120 Voltage Restre 30 Voltage Restre 30 Senerol 1: 1000 (minutes) Mains Fail Time: 7 Comerol Purpose Inture Sense (tick for high in alorem Input 1-8: 7 Upt 1-8: 7 Upt 5-16: 7 Und CFail Time: 1 Input 5-16: 7 Upt 5-16: 7 Upt 5-16: 7 Upt 5-16: 7 Upt 5-16: 7	SIM Override:	Presets 1 💌	
Voltage set belave Voru Dial Up Server 1: Server 2: 10.14.9195 Server 3: Server 3: Server 4: Predal Num: Predal Num: 00009172263 Phone Number 1: 00009172263 Phone Number 1: 00009172263 Phone Number 1: 00009172263 Voltage Fall Delay: 120 Voltage Fall Delay: 120 Voltage Fall Delay: 120 Voltage Restre 30 Off Line Time: (seconds) Voltage Restre 30 Voltage Fall Delay: 120 Low DC Fall Time: 0 (minutes) Low DC Fall Time: 0 (minutes) Low DC Fall Time: 0 v v v v v v v Iput 1-8: v v v v v v v v Und Child Time: 1 (minutes) Und Child Time: 1 (minutes) Und Child Time: 1 (minutes) Ceneral Dupose Duput Sense (tick for high in alarm Iput 1-8: v v v v v v v v v Und Child Time: 1 (minutes)	Roaming CSQ Limit	19	
Data Up Server 1: 10 18.43 195 Server 2: 10 18.43 195 Server 3: Server 3: Server 4: Predial Num: Phone Number 1: 00009173265 User 7: Concord Server 4: Predial Num: edcare/Selbstremecom Password: 30 Voltage Rables: 120 (seconds) Voltage Rables: 130 (seconds) Voltage Rables: 150 (minutes) Panel Panel Panel (seconds) Off line Timeout: 1500 (minutes) Off line Timeout: 1500 (minutes) Low C Fall Time: 1 Input 1-8: Y Y Y Y Y Input 9-16: Y Y Y Y Y Input 9-16: Y Y Y Y Y Unre Fault Debounce Time (minutes) Wireline: 2 (minutes) Dal IP: 15 (minutes) General Purpose Outputs GPOP 1: GPOP 1: Relay 2 Control GPOP 2: Relay 2 Control GPOP 3: RPS M	Distance		
Server 1: 10 10 43 195 Server 2: 10 10 43 211 Server 3: Server 3: Server 4: Predal Nun: Phone Number 1: 0000173263 Phone Number 2: 0000173265 User Name: redcareS@binlemet.com Passord: 30 Voltage Rature 30 Oblage Rature 30 Server 4: provide Panel Passord: Panel 0 Panel (minutes) Off Line Timeout: 1500 Low OC Faal Time: 7 Low OC Faal Time: 7 Input 9-16: 7 Server 7 7 Input 9-16: 7 Input 9-16: 7 Server 7 7 Dial IP: 15 General Purpose Input Sense (Lick for high In alarm Dial IP: 15 </td <td>Dial Up</td> <td></td> <td></td>	Dial Up		
Server 2: 10:54.2/11 Server 3: Server 4: Phone Number 1: 08009173263 Phone Number 1: 08009173263 Phone Number 2: 08009173265 Uder Name: redcare@buttmet.com Passer redcare@buttmet.com Passer redcare@buttmet.com Passer Seconds) Panel Ype: Panel Type: PN ♥ Off Line Timeout: 1500 (minutes) Mains Fail Time: 7 (minutes) Ceneral Purpose Input Sense (tick for high in alarm Input 1=8: 7 ♀ ♀ ♀ ♥ Viellne: 2 (minutes) Line Fault Debounce Time 15 (minutes) General Purpose Outputs GPOP 1: GPOP 1: TS ♥ ♥ GPOP 2: Relay 2 cond ♥ GPOP 3: TP ♥ ♥ GPOP 3: TP ♥ ♥	Server 1:	10.18.43.195	
Server 4: Predial Num: Phone Number 2: 00009172263 Phone Number 2: 00009172265 Uder Name: Postassord: voltage Fail Delay: Voltage Fail Delay: Voltage Restore 20 (seconds) Voltage Restore 20 (seconds) 00 (fi Line Timeouti 100 (seconds) 00 (fi Line Timeouti 100 (seconds) 01 (seconds)	Server 2:	10.18.43.211	
Predial Num: Prone Number 1: 0000173263 Phone Number 2: 0000173265 User Name: edcare0@bhdmmet.com Password: voltage Fal Delay: 120 (seconds) voltage Rature Voltage Rature 30 (seconds) voltage Rature seconds) Panel Password: voltage Rature mmilliseconds) Panel password: voltage Rature mmilliseconds) Off Line Timeout: 500 (minutes) milliseconds) Off Line Timeout: rom (minutes) milliseconds) Off Line Timeout: rom	Server 4:		
Phone Number 1: 0000172833 Phone Number 2: 0000172853 User Name: redcare@bthtemet.com Passovdi: votage Fal Delay: Votage Reatore 30 (seconds) Votage Reatore 30 (seconds) Votage Reatore 30 (seconds) Votage Reatore 30 (milliseconds) Off Line Timeout: 1500 (milliseconds) Off Line Timeout: 1500 (minutes) Ceneral Purpose Input Sense (tick for high In alarmetinput 9-16: Y Y Y Y Y Y Line Fault Debounce Time Vireline: 2 (minutes) Use Input 9-16: Y Y Y Y Y Y Y Ceneral Purpose Input Sense (tick for high In alarmetinput 9-16: Y Y Y Y Y Y Use Input 9-16: Y Y Y Y Y Y Y Use Input 9-16: Y Y Y Y Y Y Y Input 9-16: Y Y Y Y Y Y Y Input 9-16: Y Y Y Y Y Y Y GeoP 1: BSA Form 175 Y Y	Predial Num:		
Phone Number 2: 00009172265 User Name: redcare@bbinemet.com Password: redcare@bbinemet.com Voltage Fail Delay: 120 (seconds) Ustage Fail Delay: 120 (seconds) Delay: 00 (seconds) Panel mine fail (miniseconds) Off Line Timeout: 1000 (minutes) Mains Fail Time: 7 (minutes) Low DC Fail Time: 1 (minutes) Input 9-16: V V V V V V Wreline: 2 (minutes) Uine Fault Debounce Time Vereine: 15 Wreline: 15 (minutes) Dial D: 15 (minutes) General Purpose Outputs Vereine: Vereine: GPOP 1: BSK Jorm 175 Vereine: GPOP 2: Relay2 Control Vereine: GPOP 3: PFS Vereine: Vereine:	Phone Number 1:	08009173263	
User: Name: reduces@Bothsmet.com Password: 120 (seconds) Voltage Fail Delay: 120 (seconds) Voltage Restore 30 (seconds) Panel Panel (seconds) Panel FM (minuses) Kesoff Windows: 0 (minutes) Off Line Times: 7 (minutes) Low DC Fail Time: 1 (minutes) Input 5-16: 0 Y Y Y Y Y Y Y Y Wreline: 2 (minutes) Dial IP: 15 (minutes) Dial IP: 15 (minutes) Ceneral Purpose Outputs GPOP 1: BSN From 17 V GPOP 1: BSN From 17 V GPOP 2: PS Y	Phone Number 2:	08009173265	
Password:	User Name:	redcare8@btint	ernet.com
voltage rail Delay: t/z) (seconds) Voltage Resch 30 (seconds) Panel Panel (millisconds) Panel Pinel (millisconds) Off Line Timeout: 1500 (millisconds) Off Line Timeout: 1500 (minutes) Mains Fail Time: 7 (minutes) Low DC Fail Time: 1 (minutes) Input 9-16: V V V V V V V Wreline: 2 (minutes) Dial Debounce Time Vireless: 15 Dial D: 15 (minutes) General Purpose Outputs GPOP 1: BSI Arom 175 GPOP 2: Relay 2 Control V GPOP 3: FPS V (PoP for type for the for arction build)	Password:	100	(d-)
Panel Type: PNI W Resolf Window: 0 (milliseconds) Off Line Timeout: 1500 (minutes) Mains Fail Time: 7 (minutes) Low DC Fail Time: 1 (minutes) Ceneral Purpose Input Sense (tick for high in alarm Input 9-16: V V V V V Input 9-16: V V V V V Wreline: 2 (minutes) Dial DP: 15 (minutes) Dial DP: 15 (minutes) Dial DP: 15 (minutes) Ceneral Purpose Outputs GPOP 1: BSIA Form 175 W GPOP 2: Realing 2 Control W GPOP 3: Realing 2 Control W GPOP 5: V V V V V V GPOP 5: V V V V V V GPOP 5: V V V V V V V GPOP 5: V V V V V V V V V V V V V V V V V V	Voltage Fail Delay:	30	(seconds)
Panel Panel Type: PiNe Panel Type: PiNe Rissoff Window: D (milliseconds) Off Line Timeout: 1500 (minutes) Mains Fail Time: T (minutes) Ceneral Purpose Input Sense (tick for high in alarm Input 1-8: Input 5-16: P V V V V V V Une Fault Debounce Time Wreline: 2 (minutes) Dial D: 15 (m	Delay:	30	Records)
vame Type: VM Kisoff Window: 0 (milliaconds) Off Line Timeout: 550 (minutes) Mains Fall Time: 7 (minutes) Low OC Fall Time: 1 (minutes) General Purpose Input Sense (tick for high in alarm Input 1-8: V V V V V V Line Fault Debounce Time Vereline: 2 Wireles: 15 (minutes) Dial IP: 15 (minutes) General Purpose Outputs GPOP 1: BSUA Form 175 GPOP 3: TPS V (PoP V/ref for action build)	Panel	Dates	
Off Line Timeseconds) Off Line Timeseconds) Off Line Timeseconds Tom (minutes) Mains Fail Time: 7 (minutes) Low DC Fail Time: 1 (minutes) Low DC Fail Time: 1 (minutes) Input 1-8: 1 (minutes) Input 9-16: V V Vireline: 2 (minutes) Wreline: 2 (minutes) Uine Fault Debounce Time Werline: 5 Wireline: 15 (minutes) Dial IP: 15 (minutes) GPOP 1: BSJ From 175 V GPOP 2: Relay 2 Control V GPOP 3: FPS V (for for arctime hash)	Panel Type: Kissoff Window/		(milliconnet-)
Image And Time: 7 (minutes) Mains Fail Time: 7 (minutes) Low DC Fail Time: 1 (minutes) General Purpose Input Sense (lick for high in alarm Input 1-8: 7 7 7 Input 9-16: 7 7 7 7 7 Uine Fault Debounce Time Werline: 2 (minutes) 15 (minutes) Dial D: 15 (minutes) 15 (minutes) 15 (minutes) Dial D: 15 (minutes) 15 (minutes) 15 (minutes) 16 16 17 16 16 16 16 16 16 17 16	NISSOTT WINDOW:	1500	(minutos)
Join DC Fail Time: 1 (minutes) General Purpose Input Sense (tick for high in alarm Input 1-8: ? ? ? ? ? ? ? Input 9-16: ? ? ? ? ? ? Uine Fault Debounce Time Wrelins: 15 (minutes) Dial DP: 15 (minutes) General Purpose Outputs GPOP 1: PSI PSI ? OPOP 3: PSI ? OPOP 3: PSI ? (POP 2: PSI ? (POP 2: PSI ? (POP 2: PSI ? (POP 3: PSI ?	Mains Fail Time:	7	(minutes)
Ceneral Purpose Input Sense (tick for high in alarm Input 1-8:	Low DC Fail Time:	1	(minutes)
Input 1-8: Input 9-16: V V V V V Line Fault Debounce Time Wreline: 2 (minutes) Wieless: 15 (minutes) Wieless: 15 (minutes) Ceneral Purpose Outputs GPOP 1: BSUA From 175 V GPOP 2: Relay 2 Control V GPOP 3: GPOP 1: GPOP 1: GPOP 3: Control V GPOP 5: GPOP 1: GPOP	General Purpose T	mut Sence (ti-h	for high in sta
Input 1-98: Image Im	General Purpose Ir	put sense (tick	or nigh in ala
Ceneral Debounce Time Wireline: 2 (minutes) Dial IP: 15 (minutes) Dial IP: 15 (minutes) General Purpose Outputs GPOP 1: BSUk Form 175 ¥ GPOP 2: Relay 2 Control ¥ GPOP 3: FPS ¥ GPOP same 1-3: IPS ¥ [PDF // trick for actions head) F	Input 1-8: Input 9-16:	 	
Wreline: 2 (minutes) Wireless: 15 (minutes) Dial IP: 15 (minutes) General Purpose Outputs GPOP 1: BSIA Form 175 ¥ GPOP 2: Relay 2 Control ¥ GPOP 3: FP 9 ¥ GPOP 3: FP 9 ¥ (%) (%) (%)	Line Fault Debour	e Time	
Wereless: 15 (minutes) Dial IP: 15 (minutes) General Purpose Outputs GPOP 1: BSIA Form 175 V GPOP 2: Relay 2 Control V GPOP 3: FPS V GPOP 3: FPS V 10 V/ref for action black black	Line Fault Debouit	e mile	
United is an analysis Ib (minutes) Dial IP: 15 (minutes) General Purpose Outputs (minutes) (minutes) GPOP 1: BSIA Form 175 V GPOP 2: Relary 2 Control V GPOP 3: RPS V (minutes) GPOP 5: IPS V (minutes)	Wireline:	2	(minutes)
General Purpose Outputs GPOP 1: BSUk Form 175 GPOP 2: Relay 2 Control GPOP 3: FPS V GPOP 3: FPS V	Dial IP:	15	(minutes)
GPOP 1: BSIA Form 175 GPOP 2: Relay 2 Control GPOP 3: RPS w GPOP 3: V		utaute	
GPOP 1: DSM From 1/5 ▼ GPOP 2: Relay 2 Control ▼ GPOP 3: RPS ▼ ▼ GPOP 5: V ▼	o 10	utputs	
GPOP 3: RPS V GPOP Sense 1-3: V V V (tick for active high)	General Purpose O	DOM 5	
GPOP Sense 1-3: V V (tick for active high)	General Purpose O GPOP 1:	BSIA Form 175	×
	General Purpose O GPOP 1: GPOP 2: GPOP 3:	BSIA Form 175 Relay 2 Control	~

Web console Quick Start Menu screen

Figure 17 - Web console "Quick Start" page

The web console "quick start" page in Fig. 17 is shown populated with the factory defaults.

Clicking on the "Save Config" button, at the bottom of the screen, sends the configuration to the unit and then restarts the unit.

Definition of quick start settings

Account Information.

- Account number: Default = 0. This field can optionally be populated with the TA number of the device. Can be used to auto populate SID on the account at commission time.
- Agency ID: Default = 0. Normally always set to 0
- Management Port: Default = 9000. Always set to 9000.

Interface combination.

Interface select: Default = Wireless + Dialup. This field enables the unit's communication paths. Use "Wireless + Dialup" for "Secure 2 & 3" or "Wireline + Wireless" for "Secure IP"

Wireline settings (IP path details)

- Server 1. Default 62.239.139.2 the address of the B side ESP servers.
- Server 2. Default 62.239.139.130 the address of the A side ESP servers.
- Server 3. Default = blank.
- Server 4. Default = blank.
- Tunnel Server port. Default = 443. The IP port used to establish the IP path tunnel. Can be set to alternative port 10443 if required by some IT system managers (see F5)
- Proxy server settings. The following settings are only required where direct Outgoing access is not available on IP port 443 or 10443, and the IT system manager requires all outgoing traffic to be routed via a proxy server.
 - Proxy IP:Port : Default = blank. Can be populated with the IP address and port of a proxy server if required by some IT system managers.
 - Proxy Auth type: Default = None. Can be set to None, basic or NTLM if required by some IT system managers.
 - Proxy User: Default = blank. Username for a Proxy server where required.
 - Password: Default = blank. Password for the Proxy server where required.

LAN settings

• DHCP. Default = ticked. The unit will automatically obtain its IP addressing details from a DHCP server on the LAN. Untick to turn off DHCP where static IP addressing is required by the IT system manager.

- IP Address: Default = Last used IP address e.g. 192.168.1.15. Can be set to a static IP address where required by the IT system manager. Auto populated if DHCP is enabled.
- Subnet mask: Default = Last used subnet mask e.g. 255.255.255.0. Can be set to a static IP mask where required by the IT system manager. Auto populated if DHCP is enabled.
- Gateway address: Last used gateway address e.g. 192.168.1.254. Can be set to a static gateway address where required by the IT system manager. Auto populated if DHCP is enabled.
- Primary DNS: Default = Last used DNS address e.g. 192.168.1.254. Can be set to a static DNS address where required by the IT system manager. Auto populated if DHCP is enabled.
- Secondary DNS: Default = Last used DNS address e.g. 0.0.0.0. Can be set to a static DNS address where required by the IT system manager. Auto populated if DHCP is enabled.

Wireless Interface settings. (GPRS)

- Server 1. Default 10.18.43.211 the address of the A side ESP servers.
- Server 2. Default 10.18.43.195 the address of the B side ESP servers.
- Server 3. Default = blank.
- Server 4. Default = blank.
- Username. Default = redcare.bt.com. The GPRS network username. Only used if Sim override = Off.
- Password. The GPRS network password. Only used if SIM override = Off.
- APN. The GPRS APN. Only used if SIM override = Off.
- Smart roaming. Default = ticked. Use smart roaming if supported by the SIM when ticked.
- SIM Overide: Default = Presets 1. Automatically detect the sim type and use the hard coded GPRS settings that match. Off = use the GPRS settings in the above (Username/ password/APN) fields.
- Roaming CSQ limit. Default = 19. Following unit startup, if the signal strength is less than this value, then roam through the available networks until this value is exceeded or all available networks have been attempted. (CSQ19 = -75dB).
- Roaming Session limit. Default = 8640 (minutes). If the previous GPRS session was longer than this time then the roaming algorithm will initially try to re-connect to the previous network. Else the unit will try the next available network. (8640mins=6 days).

Dial Up settings.

- Server 1. Default 10.18.43.195 the address of the B side ESP servers.
- Server 2. Default 10.18.43.211 the address of the A side ESP servers.
- Server 3. Default = blank.
- Server 4. Default = blank.

- Predial number; default = blank. Any additional digits that may be required to be dialled. i.e. 9 to obtain an outside line on PABX, 1740 to force CLI on, 1280 to force BT routing.
- Phone Number 1. Default = 08009173263. Telephone number of A side ESP servers.
- Phone number 2. Default = 08009173265. Telephone number of B side ESP servers.
- Username. Default = redcare@btinternet.com. Username for dialup RAS
- Password. Password for dial up RAS.
- Voltage fail delay. Default = 120s. Delay time before loss of PSTN voltage is reported. (Pin 955 alarm). Also delay time before GPOP1 operates for loss of PSTN voltage.
- Voltage restore delay. Default = 30s. Delay time before restore of PSTN voltage is reported. (Pin 955 restore). Also delay time before GPOP1 restores for restoration of PSTN voltage.

Panel settings

- Panel type. Default = Pin. Future use will enable dial capture module.
- Kiss Off window. Default = 0 ms. Future use allows dial capture kiss off time to be extended.
- Off line timeout. Default = 1500 minutes. Unit will reboot if no polls are received from ESP over any path for this period of time. (1500mins = 25 hours)
- Mains Fail time. Default = 7 minutes. Time delay before pin 13 alarm is reported.
- Low DC fail time. Default = 1 minute. Time delay before Low supply voltage alarm is reported. (pin 985 alarm)

General Purpose input sense settings.

Tick for positive applied triggering. Untick for positive removed triggering.

- Inputs 1-8
- Inputs 9-16

Line Fault Debounce time.

- Wireline. Default = 2 mins. Time before GPOP1 will operate following IP path failure.
- Wireless. Default = 15 mins. Time before GPOP1 will operate following GPRS path failure.
- Dial IP. Default = 15 mins. Time before GPOP1 will operate following PSTN path failure.

(Note: GPOP1 will restore immediately following path restoral).

General Purpose Outputs.

- GPOP1. Default = BSIA form 175.
 - BSIA form 175. Operate on either path fail, and respond to panel interrogation on pin 11.

- o BSIA
- Standard line Fault 1. Operate on either path fail.
- Standard line fault 2. Operate on both paths fail
- Primary path fault. Operate when the primary path fails. (use with GPOP2).
- GPOP2. Default = Relay 2 control.
 - o Relay 2 control
 - Secondary path fault. (use with GPOP1).
- GPOP3. Default RPS (Return path signalling)
- GPOP1-3 sense. Default = all ticked. Tick for low when normal and high when operated. Untick for high when normal and low when operated.

Web console status and log screen

Quick Start	Status and I	_og	
atus and Log	S	ystem Status:	
Logout	Control 1 Ethernet (Communication Fault	
	E	vent History: Prev Next MostRecent	
	E Z A I I	urglary Alarm one 4 .rea 1 'ime: 0:00:06 AM	
	ľ	ate: 1 Jan 2000	

Figure 18 - Web Console "Status and log" screen

The status and log screen shows the current system status, and access to the unit's event history.

The Event log history is extensive and will go back further than the last unit re-start. (i.e. the event history is stored in flash memory and not cleared by loss of power). The event log will store a minimum of 1025 events.

Events that are generated while the time on the unit is not set, i.e. after the unit has been powered up but before the unit has communicated with the ESP to obtain the correct time, are time stamped with the pseudo time and date in the year 2000 as per Fig. 18.

Note that events logged while the unit's time has been synchronised will use Greenwich Mean Time (GMT).

October 2012 © British Telecommunications plc 2011

When a PSTN call is attempted and fails to establish, a "Fail to communicate" event is logged in this local log. For further debugging there is a "Device number" associated. i.e. Device 0/2 means the unit failed to dial the second telephone number.

Other typical messages that may appear in the log.

Telephone line restore. Device 0	PSTN has successfully dialled up after a fail
Fail to communicate. Device 0/1	PSTN call to Telephone number 1 failed
Fail to communicate. Device 0/2	PSTN call to telephone number 2 failed

Panel upload Download.

Remote access to the alarm panel can be achieved using the redcare UDL facility. Contact your redcare representative for details of accessing the redcare UDL servers.



Figure 19 - serial connection to Galaxy panel allowing remote panel access from Galaxy Remote Service Suite

Roaming SIMs

The unit will auto detect the sim type that is present in the unit. Most units are supplied pre fitted with a Roaming Sim. Where a Roaming Sim is fitted then the unit will switch between GPRS networks to maintain connectivity should connectivity be lost on the current network.

The unit will search the available networks for a signal stronger than the "Roaming CSQ limit" at unit start up. (Default 19)

October 2012 © British Telecommunications plc 2011



Should the unit lose connectivity with the Redcare platforms, or lose registration with the current base station, then the unit will roam onto the next available GPRS network.

Remote commands to the unit

The ARC can issue telemetry commands to the unit, with the ID and Data fields set as below to perform the listed functions.

Function	ID	Data
Switch GPOP2 (CTRL) High	0	01
Switch GPOP2 (CTRL) Low	1	01
Perform a F175 path test (event and restore cycle)	1	00
Operate the PSTN to Dial cap bypass relay (Offline)	1	02
Release the PSTN to Dial cap bypass relay (On line)	0	02

Figure 20 - reverse telemetry commands from ARC

The ARC can also poll the unit over GPRS or IP to check that the path is currently available.

Additionally, Redcare helpdesk staff can access the following commands.

- Manual Poll to the unit over IP or Wireless.
- Retrieve the wireless details from the unit.
- Operate or release the PSTN to Dial cap bypass relay. (Offline/online)
- Send a test alarm. (user test).
- Send a dual path test. (F175 test)
- Restart the unit.

Alarm List

Description	Pin	CID (zone)	SIA (zone)	FF (zone)	Time to Active
Low DC Input Level	985	302 (999)	YT/YR	6 (2)	E – 1 minute; R – 1 minute
PSTN voltage fail	955	356 (999)	LT/LR	6(5)	E – 120s; R – 30s
Inputs 1-16	1- 16	323 (901-916)	UA/UR (901-916)	7 (1)	E – Immediate; R – Immediate
BSIA 175 Test	988	354 (998/999)	TX/TE	6 (3)	E – Immediate; R – Immediate
Unit Restarted	984	305 (995)	AT/AR (995)	5 (6)	E – Immediate; R – Immediate
Panel Download	993		LB/LX (999)		E – Bypass on; R – Bypass off
User Test	n/a		TX(998)		E – Immediate.

Figure 21 - alarms signals as delivered to ARC

Secure IP (Grade 4 only) specification notes

IP Protocol: TCP

Port: 443 or 10443

Data Usage / Requirements

Secure IP Grade 4 polling is every 30 seconds. A poll and response results in 288 total bytes transferred (incl IP headers). A small number of alarms will also typically be generated per day and these result in 296 bytes transferred. Overall this generates approximately 800 K Bytes per day, per site.

Traffic Direction

Secure IP establishes an outgoing TCP connection from your network to the Redcare Enterprise Services Platform (ESP). Once this outgoing TCP connection has been established, traffic over that connection is 2 way.

Additional Protocols

Only TCP is required from your network.

Port Forwarding

No ports need to be forwarded in the incoming direction. The outgoing TCP connection connects to port 443 or 10443 on the Redcare ESP network, so you would need to allow outgoing access to port 443 or 10443 if you block that by default.

NAT: Not required

GPRS Requirements

You do not need to route GPRS traffic. The GPRS connection from the Secure IP communicator through to the Redcare ESP and on to the ARC is entirely independent of your network.

DHCP and Static Addressing

The Secure IP communicators can be configured as either DHCP clients or with specific static IP addresses on your internal network as you prefer.

Disposal



The symbol shown here and on the product, means that the product is classed as Electrical or Electronic Equipment and should not be disposed of with other household or commercial waste at the end of its working life.

The Waste Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC) has been put in place to recycle products using the best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid the increasing landfill.

Product disposal instructions for users:

Please dispose of the product as per your local authority's recycling processes. For more information please contact your local authority or retailer where the product was purchased.

The product may be returned to the Freepost address below:

BT SUPPLY CHAIN DARLINGTON ROAD , NORTHALLERTON. NORTH YORKSHIRE DL6 2PJ.

Republic of Ireland customers can return the product to any of the following addresses:

BT IRELANDBT IRELAND27 WILLSBOROUGH INDUSTRIALGRAND CANAL PLAZAESTATEGRAND CANAL DOCKCLONSHAUGHDUBLIN 2DUBLIN 17Canal canal c

BT IRELAND DUNDRUM BUSINESS PARK DUNDRUM DUBLIN 14

Disclaimer

The manufacturer or his agents disclaim responsibility for any damage, financial loss or injury caused to any equipment, property or persons resulting from any use of this equipment. The manufacturer is not liable for any purely economic loss arising from any use of this equipment. All responsibility and liability in the use of Redcare products are assumed by the user.

This unit is designed to be used in customer premises. Use of this equipment in other locations may void warranty. This unit is not intended for use in marine environments or water borne vessels.

Redcare may make changes to features and specifications at any time without prior notification in the interest of ongoing product development and improvement.

October 2012 © British Telecommunications plc 2011

Glossary of terms

- ADSL Asymmetric digital subscriber line (Broadband)
- ARC Alarm receiving Centre
- BSIA British Security Industry Association
- BER Bit Error Rate (0-7, normally shown as 99 on Secure Mk3)
- CSQ Carrier Signal Quality (RSSI,BER)
- CTRL Control O/P (remotely controlled output)
- DHCP Dynamic Host Configuration Protocol
- DIN Standard mounting rail for control equipment. (Deutsches Institut Fur Normung).
- DNS Domain Name Server
- ESP Enterprise Services Platform (Redcare's new generation alarm signalling network)
- ESPUI Enterprise Services Platform User Interface. (Redcare's user interface)
- F175 Form 175 as issued by BSIA
- GMT Greenwich Mean Time
- GPIP General Purpose Input
- GPOP General Purpose Output
- GPRS General Packet Radio Service
- IP Internet Protocol
- LED Light Emitting diode (Light Indicator)
- LAN Local area Network
- MMCX Micro Miniature Coaxial connector
- NTLM NT Lan Manager a suite of Microsoft security Protocols
- TTL Transistor Transistor Logic
- Tx Transmit
- PABX Private Automatic branch Exchange. (Telephone system)

- PIN Parallel Input
- PSTN Public switched Telephone Network
- RAS Remote Access server
- RSSI Received Signal strength indicator (0-31)
- RPS Return Path Signalling (An output that confirms delivery of PIN 4 to ESP)
- Rx Receive
- SID Serial Identity number 12 digit unique identity number of a secure unit
- SIM Subscriber identity module (sim card)
- USB Universal Serial Bus
- USBNav USB Programming tool for secure Mk3

Support

For assistance with your Redcare Secure installation, please contact the Redcare Helpdesk on **0800 671 240** option 5.