



Contents

1.	Introduction	1
1.1	Nexus RF Supporting Documents.....	1
1.2	Navigating the AC Menu Pages.....	2
1.3	Screen Saver Mode.....	2
1.4	Sample AC Pages.....	3
1.5	The Status Page.....	3
1.6	The Main Menu.....	4
1.7	How this Manual is Organized.....	4
2.	Units in Domain Menu Option	7
2.1	Units in Domain Page.....	7
2.2	Unit Menu Page.....	8
2.3	Unit Status Page.....	9
2.4	Unit RF Status Page.....	9
2.5	Unit Location Page.....	10
2.6	Unit Details Page.....	10
2.7	Unit Test Page.....	11
2.8	Unit Maintenance Page.....	12
2.9	Unit Tools Page.....	13
3.	Routers in Domain Menu Option	14
3.1	Routers in Domain Page.....	14
3.2	Router Menu Page.....	15
3.3	Units in Router Page.....	15
3.4	Router Status Page.....	16
3.5	Router Details Page.....	17
3.6	Router Location Page.....	18
4.	Tools Menu Option	19
4.1	Tools Page.....	19
4.2	Delete Tools Page.....	20
4.3	Tools – Delete Unit Page.....	20
4.4	Database Page.....	21
4.5	Set Clock Page.....	22
5.	Emergency Light Testing Menu Option	23
5.1	Emergency Light Testing Page.....	23
5.2	Groups in Domain Page.....	24
5.3	Group Menu Page.....	25
5.4	Units in Group Page.....	26
5.5	Group Status Page.....	27
5.6	Group Details Page.....	27
5.7	Group Discharge Test Page.....	28
5.8	Add Units to Group Page.....	29
6.	AC Unit Functions	30

6.1	Commissioning a New Unit into the System	30
6.2	Decommissioning a Unit.....	32
6.3	Deleting a Unit from the System.....	33
6.4	Viewing a Units Details	34
6.5	Viewing a Units Current Status.....	34
6.6	Editing a Units Location Details	35
6.7	Changing a Units Group Assignment.....	36
6.8	Yellow Blinking a Unit.....	36
6.9	Calibrating a Units LDR	37
6.10	Performing a Unit Diagnostic Test.....	37
6.11	Viewing a Units Test Result History.....	38
6.12	Viewing a Units Maintenance History Log.....	38
6.13	Adding a Unit Maintenance History Record.....	39

7. Group and Testing Related Functions 40

7.1	List the Groups in the System	40
7.2	Adding a New Group	41
7.3	Deleting an Existing Group.....	41
7.4	Viewing the Units Assigned to a Group.....	42
7.5	Viewing a Groups Status.....	42
7.6	Viewing/Editing a Groups Details	43
7.7	Scheduling a Group Discharge Test.....	44
7.8	Performing a Diagnostic Test on a Group.....	44
7.9	Yellow Blinking all Fittings in a Group.....	45
7.10	Adding Units to a Group	46
7.11	Stopping an Active Group Discharge Test.....	46

8. Glossary of Terms 47

1. Introduction

The Area Controller (AC) is an essential part of every Nexus RF Emergency Lighting System. The AC provides the System user complete operational control of their Nexus RF System without the requirement of a dedicated PC head-end. The AC incorporates a keypad and LCD Touch screen interface through which an operator can access all of the System's configuration, monitoring and reporting functions.

Every Nexus RF System will have at least one AC and on larger installations several AC's may be used. The AC offers identical RF functionality as the Area Controller Routers (ACR's) but in addition provides an operator interface and battery backup. The battery backup enables the AC to be utilized in certain situations as a mobile device for system diagnostic purposes.

The user interface provided by the AC is very intuitive and once an operator has a basic grasp on the main menu options available it is generally easy locate the general functions of the system. It is the aim of this manual to provide an operator with an overview of the available menu's and configuration pages available from the AC.

In This Chapter

Nexus RF Supporting Documents	1
Navigating the AC Menu Pages	2
Screen Saver Mode	2
Sample AC Pages	3
The Status Page	3
The Main Menu	4
How this Manual is Organized	4

1.1 Nexus RF Supporting Documents

In conjunction to this document you may be interested in referring to the following supporting documents:

- Nexus RF System Overview
- Nexus RF WEB Interface Guide

1.2 Navigating the AC Menu Pages

The AC can be operated using the keypad, an externally connected USB keyboard or the touch screen interface. The majority of operations can be most easily performed via a combination of the keypad and touch screen interfaces. In situations where extensive amounts of data entry are required use of a USB keyboard would be more efficient.

The menu/page hierarchy follows a tree type structure, so from any page repeated presses of the ◀ or *Back* buttons will return you to the AC's *Main Menu* and *Status* Pages.

All future references in this document with regards to page navigation and menu function activation will be targeted from the perspective that the system is being driven by the touch screen interface.

Keypad and USB Keyboard Interface

The cursor buttons ▲ and ▼ allow navigation up and down through the items on a page.

The ► or *Enter* Button can be used to activate menu or parameter functions.

The cursor buttons ► and ◀ allow navigation within editable text and numeric fields.

The *Back* Button or ◀ can be used to navigate from a current page to its parent page

The *Page UP* and *Page DOWN* buttons allow up/down navigation through a multi-screened page.

Touch Screen Interface

Menu and parameter functions can be activated by selecting them with the stylus.

The highlighted menu or parameter function can be activated by selecting the onscreen *Next* button.

The onscreen *Back* button can be used to navigate from a current page to its parent page

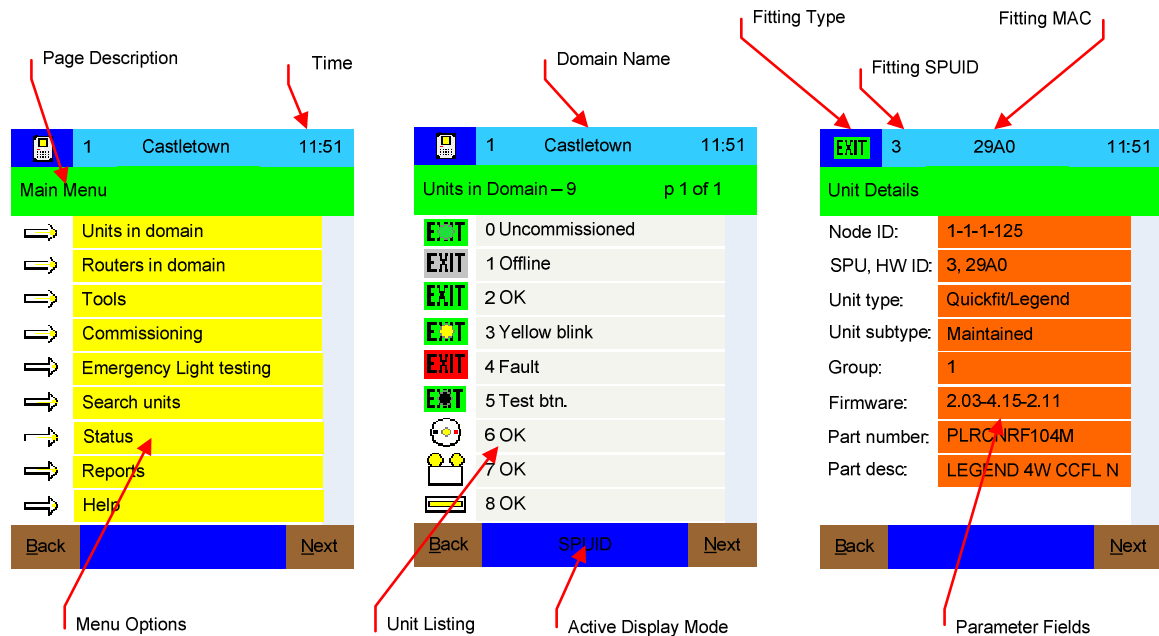
The scroll bar allows up/down navigation through a multi-screened page.

1.3 Screen Saver Mode

When an AC has no user input via the keypad, USB Keyboard or touch screen for a period of 10 minutes the LCD display will go into its screen saver mode. To return the AC to normal operation press the *Func* Button on the keypad.

1.4 Sample AC Pages

Below are some sample AC pages which highlight the various types of onscreen fields.



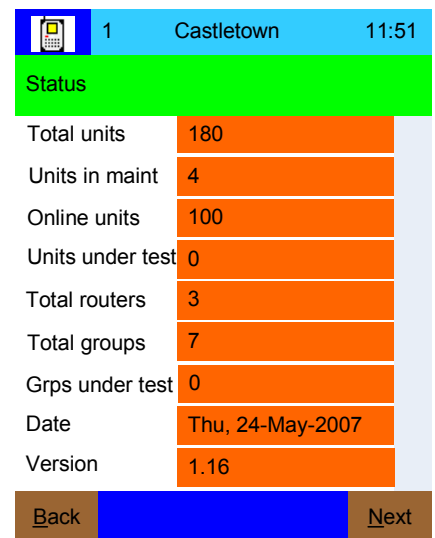
1.5 The Status Page

Page Description

When the AC is switched on and boots up the *Status* Page is displayed. This page provides an overall summary of the current System state.

Parameter Fields

- Total Units** – The number of units in the Domain
- Units in maint** – The number of units in the Maintenance Group
- Online Units** – The number of online units in the Domain
- Units under Test** – The number of units currently under test
- Total routers** – The number of routers in the Domain
- Total groups** – The number of groups in the Domain
- Grps under test** – The number of groups currently under test
- Date** – The systems current date setting
- Version** – The version number of the AC firmware



Page Item Function

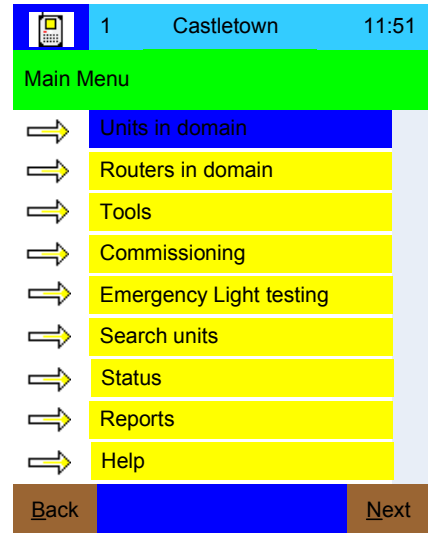
Page Item Selected	Action
Back Button	Displays the <i>Main Menu</i> Page, refer to 1.6 The Main Menu
Total Units Parameter	Displays the <i>Units in Domain</i> Page, refer to 2.1 Units in Domain Page
Units in Maint Parameter	Displays the <i>Group Menu</i> Page for the Maintenance Group, refer to 5.3 Group Menu Page
Online Units Parameter	Displays the <i>Online Units in Domain</i> Page, displays a list of the online units in the system

<i>Total Routers</i> Parameter	Displays the <i>Routers in Domain</i> Page, refer to 3.1 Routers in Domain Page
<i>Total Groups</i> Parameter	Displays the <i>Groups in Domain</i> Page, refer to 5.2 Groups in Domain Page

1.6 The Main Menu

Page Description

The *Main Menu* Page is the top level menu for all operator functionality within the system.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Status</i> Page, refer to 1.5 The Status Page
<i>Units in Domain</i> Menu Option	Displays the <i>Units in Domain</i> Page, refer to 2.1 Units in Domain Page
<i>Routers in Domain</i> Menu Option	Displays the <i>Routers in Domain</i> Page, refer to 3.1 Routers in Domain Page
<i>Tools</i> Menu Option	Displays the <i>Tools</i> Page, refer to 4.1 Tools Page
<i>Commissioning</i> Menu Option	Reserved for TNB Service Representatives
<i>Emergency Light Testing</i> Menu Option	Displays the <i>Emergency Light Testing</i> Page, refer to 5.1 Emergency Light Testing Page
<i>Search Units</i> Menu Option	Displays the <i>Search Units</i> Page, provides menu options for searching for fittings in the DB by either SPUID, MAC or test button press
<i>Status</i> Menu Option	Displays the <i>Status</i> Page, refer to 1.5 The Status Page
<i>Reports</i> Menu Option	Displays the <i>Report Menu</i> Page, provides menu options for the generation of the many systems reports
<i>Help</i> Menu Option	Displays the <i>Help Menu</i> Page

1.7 How this Manual is Organized

Chapters 2 through to 5

The menu/page hierarchy of the AC follows a tree type structure with the *Main Menu* Page being the root. Each of the chapters 2 through to 5 look at the sub pages available under the menu options available from the *Main Menu* Page. The content of each of these chapters is as follows:

Chapter 2 - details each of the sub pages available via the *Units in Domain* Menu Option.

Chapter 3 - details each of the sub pages available via the *Routers in Domain* Menu Option.

Chapter 4 - details each of the sub pages available via the *Tools* Menu Option.

Chapter 5 - details each of the sub pages available via the *Emergency Light Testing* Menu Option.

Chapters 6 through to 7

Chapters 6 and 7 are directed at providing a quick lookup section that details step-by-step instructions for performing the more common day-to-day functions of the system. The content of each of the chapters is as follows:

Chapter 6 - details instructions for performing the most common fitting related functions.

Chapter 7 - details instructions for performing the most common testing and group related functions.

In reading this manual you should take the time to work through Chapters 2 through to 5 to familiarize yourself with the various menu pages and functions available. Chapters 6 through to 7 should be consulted when help is required on performing a specific configuration/activation function.

2. Units in Domain Menu Option

The *Units in Domain* Menu Option allows you to view all of the units in the domain. The majority of unit related functions are accessed by the sub pages available under the *Units in Domain* Menu Option. The following sections detail the main sub pages and their available functions.

In This Chapter

Units in Domain Page	7
Unit Menu Page	8
Unit Status Page	9
Unit RF Status Page	9
Unit Location Page	10
Unit Details Page	10
Unit Test Page	11
Unit Maintenance Page	12
Unit Tools Page	13

2.1 Units in Domain Page

Menu Hierarchy

Main Menu Page (Select the *Units in Domain* Menu Option)
 └ *Units in Domain* Page

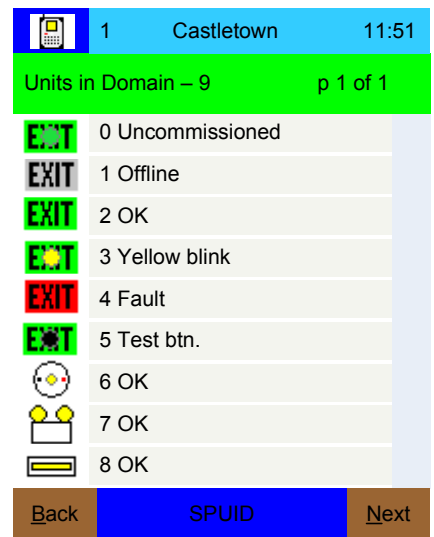
Page Description

The *Units in Domain* Page displays a list of all the units in the domain (9 units per page). The units are listed in numerical order according to their SPUID. Uncommissioned units have an SPUID of 0 and as such are at the top of the list, they are listed in numeric order according to their MAC Addresses.

Mode Button Options

The *Mode* Button allows the operator to select different display modes for the unit information.

- SPUID** – Displays the unit SPUID and Status
- MAC** – Displays the unit MAC and Status
- SAM** – Displays the unit SPUID, MAC and Status
- LOC** – Displays the unit SPUID and Location
- GRP** – Displays the unit SPUID and Group Assignment
- SIG** – Displays the unit SPUID, MAC, System ID and Signal Strength
- NET** – Displays the unit Network Address and Status



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Main Menu</i> Page, refer to 1.6 The Main Menu
Scroll Bar	Navigation to additional pages of fittings
One of the Units	Displays the <i>Unit Menu</i> Page for this fitting, refer to 2.2 Unit Menu Page

2.2 Unit Menu Page

Menu Hierarchy

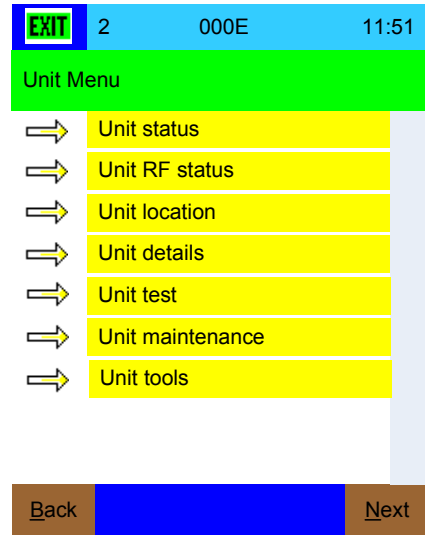
Main Menu Page (Select the *Units in Domain* Menu Option)

└ *Units in Domain* Page (Select a Unit)

└ *Unit Menu* Page

Page Description

The *Unit Menu* Page provides a series of functions/tools related to the currently selected unit (in this case SPUID – 2, MAC – 000E).



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Units in Domain</i> Page, refer to 2.1 Units in Domain Page
<i>Unit Status</i> Menu Option	Displays the <i>Unit Status</i> Page, refer to 2.3 Unit Status Page
<i>Unit RF Status</i> Menu Option	Displays the <i>Unit RF Status</i> Page, refer to 2.4 Unit RF Status Page
<i>Unit Location</i> Menu Option	Displays the <i>Unit Location</i> Page, refer to 2.5 Unit Location Page
<i>Unit Details</i> Menu Option	Displays the <i>Unit Details</i> Page, refer to 2.6 Unit Details Page
<i>Unit Test</i> Menu Option	Displays the <i>Unit Test</i> Page, refer to 2.7 Unit Test Page
<i>Unit Maintenance</i> Menu Option	Displays the <i>Unit Maintenance</i> Page, refer to 2.8 Unit Maintenance Page
<i>Unit Tools</i> Menu Option	Displays the <i>Unit Tools</i> Page, refer to 2.9 Unit Tools Page

2.3 Unit Status Page

Menu Hierarchy

- Main Menu Page (Select the *Units in Domain* Menu Option)
 - └ Units in Domain Page (Select a Unit)
 - └ Unit Menu Page (Select the *Unit Status* Menu Option)
 - └ Unit Status Page

Page Description

The *Unit Status* Page displays the status information for the selected unit (in this case SPUID – 4, MAC – 001D).

Parameter Fields

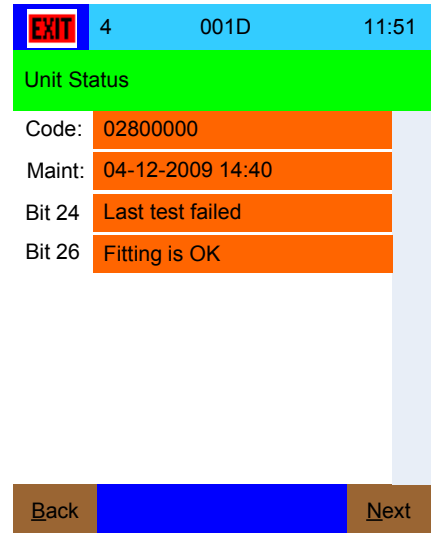
The Parameter Fields displayed vary depending on the state of the fitting, the descriptions of the fields currently displayed are as follows:

Code – This is the 32 bit code representation of the fitting status

Maint – The date and time that this fitting was added to the maintenance group due to a fitting fault or failed test

Bit 24 – This bit indicates that this fitting failed its last test

Bit 26 – This bit indicates that the units current status is OK ie no faults



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Unit Menu</i> Page, refer to 2.2 Unit Menu Page
Code Parameter Field	Reserved for TNB Service Representatives

2.4 Unit RF Status Page

Menu Hierarchy

- Main Menu Page (Select the *Units in Domain* Menu Option)
 - └ Units in Domain Page (Select a Unit)
 - └ Unit Menu Page (Select the *Unit RF Status* Menu Option)
 - └ Unit RF Status Page

Page Description

The *Unit RF Status* page provides status parameters and menu functions that relate to the selected unit.

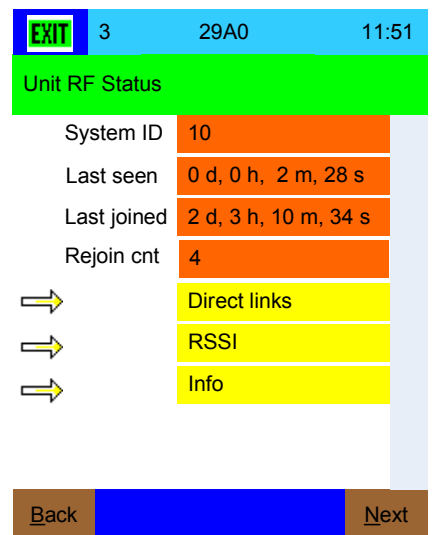
Parameter Fields

System ID – This is the units current System ID. It is possible to select this entry and edit the units System ID.

Last seen – This represents the time that has elapsed since the last successful communications between the unit and the controller network

Last joined – This represents the time that has elapsed since the unit last joined the RF Mesh Network

Rejoin cnt – This is a count of the number of times this unit has dropped communications with the RF mesh network and consequently rejoined



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Units Menu Page</i> , refer to refer to 2.2 Unit Menu Page
System ID Parameter Field	Displays the <i>Change Unit System ID Page</i> , allows you to edit the units System ID
Direct Links Menu Option	Reserved for TNB Service Representatives
RSSI Menu Option	Reserved for TNB Service Representatives
Info Menu Option	Reserved for TNB Service Representatives

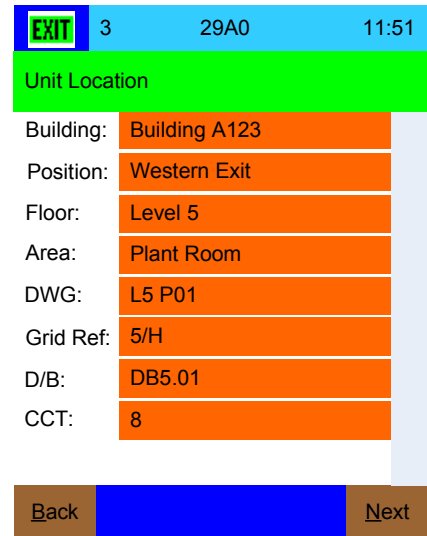
2.5 Unit Location Page

Menu Hierarchy

- Main Menu Page (Select the *Units in Domain* Menu Option)
 - ↳ *Units in Domain* Page (Select a Unit)
 - ↳ *Unit Menu* Page (Select the *Unit Location* Menu Option)
 - ↳ *Unit Location* Page

Page Description

The *Unit Location* page details the selected units location details.



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Units Menu Page</i> , refer to refer to 2.2 Unit Menu Page
Any Parameter Field	Displays the <i>Enter Unit Location Page</i> , allows you to edit the units location details

2.6 Unit Details Page

Menu Hierarchy

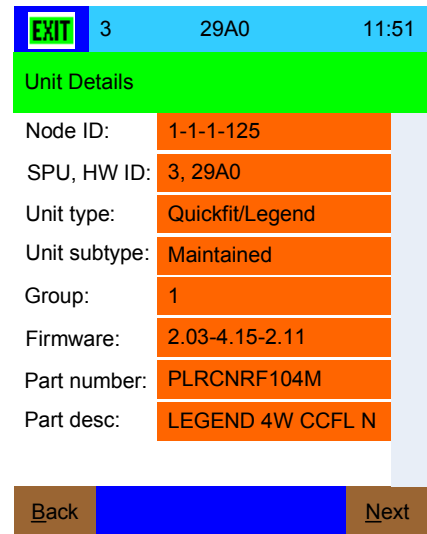
- Main Menu Page (Select the *Units in Domain* Menu Option)
 - ↳ *Units in Domain* Page (Select a Unit)
 - ↳ *Unit Menu* Page (Select the *Unit Details* Menu Option)
 - ↳ *Unit Details* Page

Page Description

The *Unit Details* page details the selected unit’s configuration details.

Parameter Fields

- Node ID** – Only useful to TNB Service Representatives
- SPU, HW ID** – This is the units SPUID and MAC Address
- Unit type** – This is the unit’s type classification
- Unit subtype** – This is the units subtype classification
- Group** – The group that this unit belongs to
- Firmware** – The version of firmware that this unit is running
- Part number** – The TNB part number for this unit.



Part desc – A plain English description that is associated with this unit’s part number

Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Units Menu</i> Page, refer to refer to 2.2 Unit Menu Page
<i>Unit Type</i> Parameter Field	Displays the <i>Change Unit Type</i> Page, allows you to set the unit type for this unit to 1 of the following types: Batten, EIM, Flood, LED Exit, Quickfit/Legend, Quickfit/Jumbo, Repeater or Spitfire
<i>Unit Subtype</i> Parameter Field	Displays the <i>Change Unit Sub Type</i> Page, allows you to set the unit sub type for this unit to 1 of the following types: Any, Maintained, NON Maintained, Sustained or Twin Maintained
<i>Group</i> Parameter Field	Displays the <i>Change Group</i> Page, allows the current group assignment to be changed
<i>Part Number</i> Parameter Field	Displays the <i>Change Unit Part Number</i> Page, allows the current part number to be changed. Note the Part number description field will automatically update according to the entered part number.

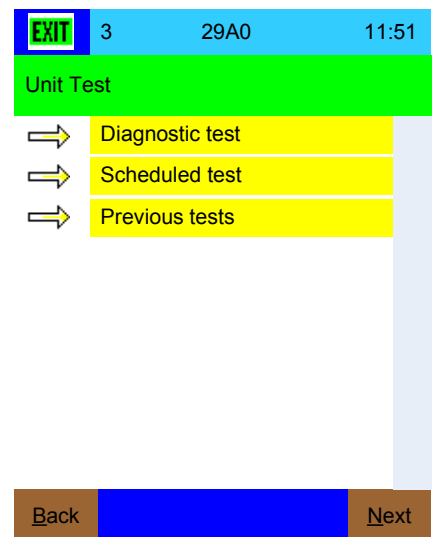
2.7 Unit Test Page

Menu Hierarchy

- Main Menu Page (Select the *Units in Domain* Menu Option)
 - └ *Units in Domain* Page (Select a Unit)
 - └ *Unit Menu* Page (Select the *Unit Test* Menu Option)
 - └ *Unit Test* Page

Page Description

The *Unit Test* Page provides a series of functions/tools related to the testing of the currently selected unit.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Unit Menu</i> Page, refer to refer to 2.2 Unit Menu Page
<i>Diagnostic Test</i> Menu Option	Displays the <i>Diagnostic Test</i> Page, displays the result of the last diagnostic test and provides a menu option to put the unit into diagnostic test
<i>Scheduled Test</i> Menu Option	Displays the <i>Scheduled Test</i> Page, displays the details for the next scheduled test for this unit
<i>Previous Tests</i> Menu Option	Displays the <i>Previous Test</i> Page, displays the test results history for this unit

2.8 Unit Maintenance Page

Menu Hierarchy

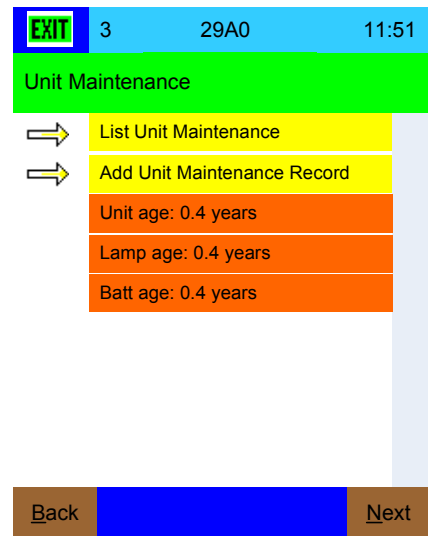
- Main Menu Page (Select the *Units in Domain* Menu Option)
 - ↳ *Units in Domain* Page (Select a Unit)
 - ↳ *Unit Menu* Page (Select the *Unit Maintenance* Menu Option)
 - ↳ *Unit Maintenance* Page

Page Description

The *Unit Maintenance* Page allows the operator to review previous unit maintenance history and add new maintenance history records.

Parameter Fields

- Unit age** – The age of the fitting
- Lamp age** – The age of the current lamp
- Batt age** – The age of the current battery



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Unit Menu</i> Page, refer to 2.2 Unit Menu Page
<i>List Unit Maintenance</i> Menu Option	Displays the <i>Maintenance History</i> Page, displays the maintenance history entries for this unit
<i>Add Unit Maintenance Record</i> Menu Option	Displays the <i>Unit Maintenance Add Record</i> Page, allows the entry of maintenance records for this unit

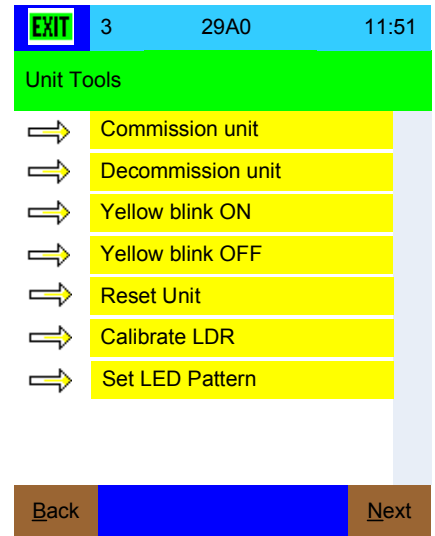
2.9 Unit Tools Page

Menu Hierarchy

- Main Menu Page (Select the *Units in Domain* Menu Option)
 - └ Units in Domain Page (Select a Unit)
 - └ Unit Menu Page (Select the *Unit Tools* Menu Option)
 - └ Unit Tools Page

Page Description

The *Unit Tools* Page provides a series of functions/tools related to the currently selected fitting.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Unit Menu</i> Page, refer to 2.2 Unit Menu Page
<i>Commission Unit</i> Menu Option	Displays the <i>Commission Unit</i> Page, allows the SPUID of this unit to be changed
<i>Decommission Unit</i> Menu Option	Decommissions the unit ie sets its SPUID to 0
<i>Yellow Blink On</i> Menu Option	The fitting will go into yellow blink mode
<i>Yellow Blink Off</i> Menu Option	The fitting will be restored from the yellow blink mode
<i>Reset Unit</i> Menu Option	Performs a soft reset on the unit
<i>Calibrate LDR</i> Menu Option	Calibrates the units LDR (N/A for units without an LDR)
<i>Set Led Pattern</i> Menu Option	Reserved for TNB Service Representatives

3. Routers in Domain Menu Option

The *Routers in Domain* Menu option allows you to view all of the routers in the domain. The majority of router related functions are accessed by the sub pages available under the *Routers in Domain* Menu Option. The following sections detail the main sub pages and their available functions.

In This Chapter

Routers in Domain Page	14
Router Menu Page	15
Units in Router Page	15
Router Status Page	16
Router Details Page	17
Router Location Page	18

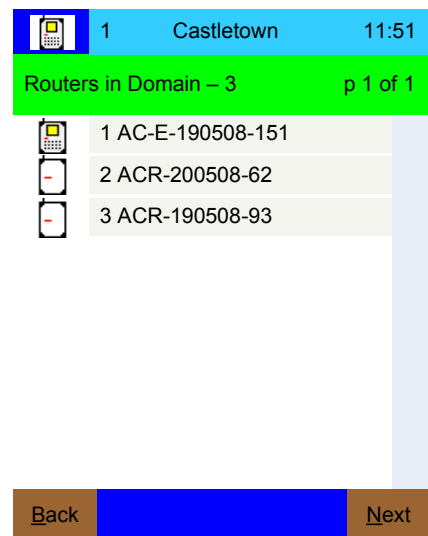
3.1 Routers in Domain Page

Menu Hierarchy

Main Menu Page (Select the *Routers in Domain* Menu Option)
 └ *Routers in Domain* Page

Page Description

The *Routers in Domain* page lists the routers that are currently configured into the domain (9 routers per page). The routers are displayed in numerical order corresponding to their router ID.



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Main Menu</i> Page, refer to 1.6 The Main Menu
Scroll Bar	Navigation to additional pages of routers
One of the routers	Displays the <i>Router Menu</i> Page for this router, refer to 3.2 Router Menu Page

3.2 Router Menu Page

Menu Hierarchy

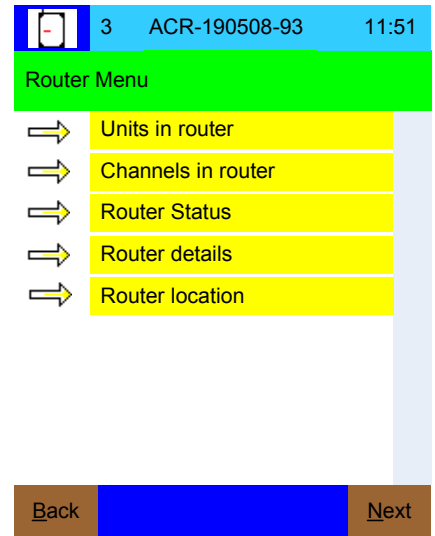
Main Menu Page (Select the *Routers in Domain* Menu Option)

└ Routers in Domain Page (Select a Router)

└ Router Menu Page

Page Description

The *Router Menu* Page provides a series of functions/tools related to the currently selected controller.



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Routers in Domain</i> Page, refer to 3.1 Routers in Domain Page
Units in Router Menu Option	Displays the <i>Units in Router</i> Page, refer to 3.3 Units in Router Page
Channels in Router Menu Option	Reserved for TNB Service Representatives
Router Status Menu Option	Displays the <i>Router Status</i> Page, refer to 3.4 Router Status Page
Router Details Menu Option	Displays the <i>Router Details</i> Page, refer to 3.5 Router Details Page
Router Location Menu Option	Displays the <i>Router Location</i> Page, refer to 3.6 Router Location Page

3.3 Units in Router Page

Menu Hierarchy

Main Menu Page (Select the *Routers in Domain* Menu Option)

└ Routers in Domain Page (Select a Router)

└ Router Menu Page (Select the *Units in Router* Menu Option)

└ Units in Router Page

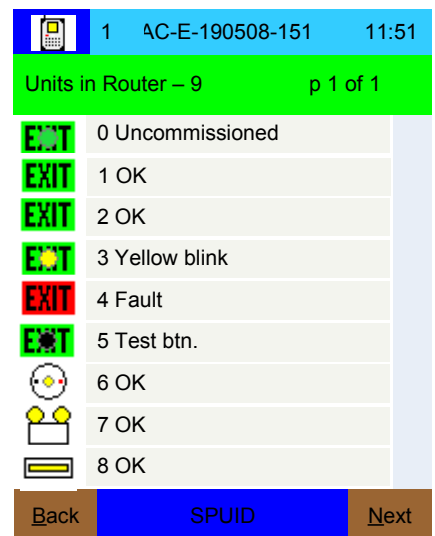
Page Description

The *Units in Router* Page displays a list of all the units in the domain (9 units per page) that are associated with this router. The fittings are listed in numerical order according to their SPUID. Uncommissioned fittings have an SPUID of 0 and as such are at the top of the list, they are listed in order of their MAC Addresses.

Mode Button Options

The *Mode* Button allows the operator to select different display modes for the unit information.

SPUID – Displays the unit SPUID and Status



- MAC** – Displays the unit MAC and Status
- SAM** – Displays the unit SPUID, MAC and Status
- LOC** – Displays the unit SPUID and Location
- GRP** – Displays the unit SPUID and Group Assignment
- SIG** – Displays the unit SPUID, MAC, System ID and Signal Strength
- NET** – Displays the unit Network Address and Status

Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Router Menu Page</i> , refer to 3.2 Router Menu Page
Scroll Bar	Navigation to additional pages of units
One of the Units	Displays the <i>Unit Menu Page</i> for this unit, refer to 2.2 Unit Menu Page

3.4 Router Status Page

Menu Hierarchy

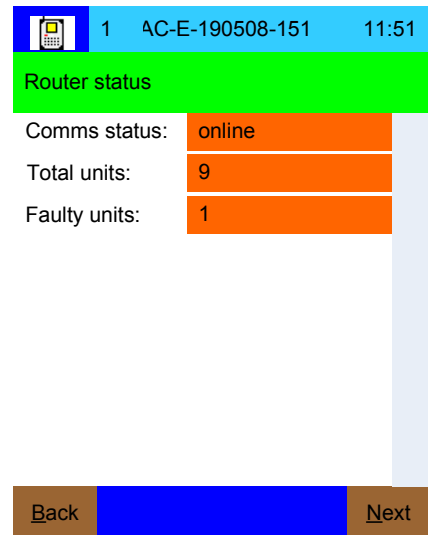
- Main Menu Page (Select the *Routers in Domain* Menu Option)
 - ↳ *Routers in Domain* Page (Select a Router)
 - ↳ *Router Menu* Page (Select the *Router Status* Menu Option)
 - ↳ *Router Status* Page

Page Description

The *Router Status* Page provides a status summary of the router and the units currently meshed to this router.

Parameter Fields

- Comms status** – This represents the router online/offline status
- Total units** – Number of units meshed to this router
- Faulty units** – The number of units meshed to this router that are currently in fault



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Router Menu Page</i> , refer to 3.2 Router Menu Page

3.5 Router Details Page

Menu Hierarchy

- Main Menu Page (Select the *Routers in Domain* Menu Option)
 - └ Routers in Domain Page (Select a Router)
 - └ Router Menu Page (Select the *Router Details* Menu Option)
 - └ Router Details Page

Page Description

The *Router Details* Page displays the current configuration parameters for the selected router.

Parameter Fields

Domain ID – All Nexus RF systems currently run on Domain ID 1

Router ID – The unique router ID for this router

Name – The name identifier for this router

Type – Identifies this router as either an AC or ACR

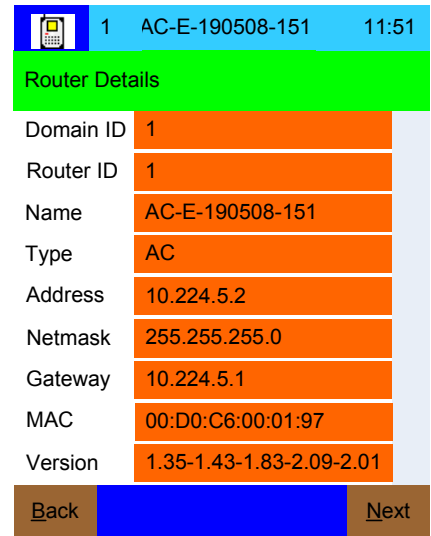
Address – The IP address for this router

Netmask – The network Netmask for this router

Gateway – The network Gateway address for this router

MAC – The unique network MAC address for this router

Version – Identifies the version of software running on this router



1 AC-E-190508-151 11:51	
Router Details	
Domain ID	1
Router ID	1
Name	AC-E-190508-151
Type	AC
Address	10.224.5.2
Netmask	255.255.255.0
Gateway	10.224.5.1
MAC	00:D0:C6:00:01:97
Version	1.35-1.43-1.83-2.09-2.01
Back	Next

Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Router Menu</i> Page, refer to 3.2 Router Menu Page
Any Parameter Field, excluding Domain ID, AC and Version	Displays the <i>Edit Router Details</i> Page, allows the router configuration details to be edited
Type Parameter Field	Displays the <i>Change Router Type</i> Page, allows you to set the controller type to either an AC or ACR
Version Parameter Field	Displays the <i>Router Versions</i> Page for this router, lists the versions for all of the firmware processes

3.6 Router Location Page

Menu Hierarchy

Main Menu Page (Select the *Routers in Domain* Menu Option)

└ Routers in Domain Page (Select a Router)

└ Router Menu Page (Select the *Router Location* Menu Option)

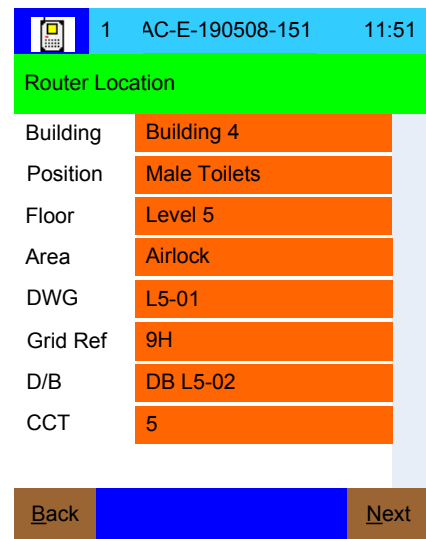
└ Router Location Page

Page Description

The *Router Location* Page displays the location details entered into the system for this router.

Parameter Fields

All of the parameter fields relate to location criteria for the unit.



1 AC-E-190508-151 11:51	
Router Location	
Building	Building 4
Position	Male Toilets
Floor	Level 5
Area	Airlock
DWG	L5-01
Grid Ref	9H
D/B	DB L5-02
CCT	5
Back	Next

Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Router Menu</i> Page, refer to 3.2 Router Menu Page
Any Parameter Field	Displays the <i>Edit Router Location</i> Page, allows the location details for this unit to be edited

4. Tools Menu Option

The *Tools* Menu provides a series of system administration tools.

In This Chapter

Tools Page	19
Delete Tools Page	20
Tools – Delete Unit Page	20
Database Page	21
Set Clock Page	22

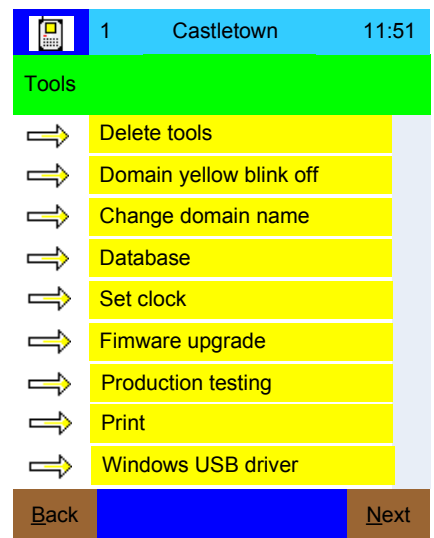
4.1 Tools Page

Menu Hierarchy

Main Menu Page (Select the *Tools* Menu Option)
 └ *Tools* Page

Page Description

The *Tools* Page provides a series of system administration tools.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Main Menu</i> Page, refer to 1.6 The Main Menu
<i>Delete Tools</i> Menu Option	Displays the <i>Delete Tools</i> Page, refer to 4.2 Delete Tools Page
<i>Domain Yellow Blink Off</i> Menu Option	Disables the yellow blink mode for all units in the domain
<i>Change Domain Name</i> Menu Option	Displays the <i>Change Domain Name</i> Page, allows the current domain name to be edited
<i>Database</i> Menu Option	Displays the <i>Database</i> Page, refer to 4.4 Database Page
<i>Set Clock</i> Menu Option	Displays the <i>Set Clock</i> Page, refer to 4.5 Set Clock Page
<i>Firmware Upgrade</i> Menu Option	Reserved for TNB Service Representatives
<i>Production Testing</i> Menu Option	Reserved for TNB Service Representatives

<i>Print Menu Option</i>	Reserved for TNB Service Representatives
<i>Windows USB Driver Menu Option</i>	Reserved for TNB Service Representatives

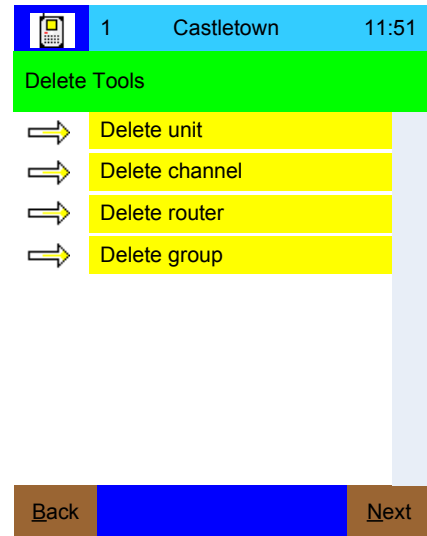
4.2 Delete Tools Page

Menu Hierarchy

- Main Menu Page (Select the *Tools* Menu Option)
 - └ *Tools* Page (Select the *Delete Tools* Menu Option)
 - └ *Delete Tools* Page

Page Description

The *Delete Tools* Page provides functions to delete units, routers and groups from the system.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Tools</i> Page, refer to 4.1 <i>Tools</i> Page
<i>Delete Unit</i> Menu Option	Displays the <i>Tools – Delete Unit</i> Page, refer to 4.3 <i>Tools – Delete Unit</i> Page
<i>Delete Channel</i> Menu Option	Reserved for TNB Service Representatives
<i>Delete Router</i> Menu Option	Reserved for TNB Service Representatives
<i>Delete Group</i> Menu Option	Displays the <i>Delete Group</i> Page, a group list is provided and groups can be deleted by selecting them

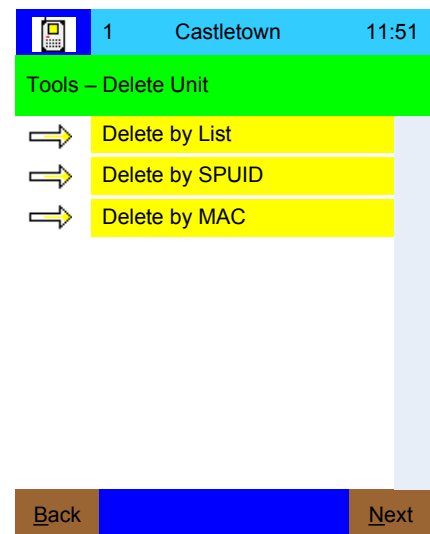
4.3 Tools – Delete Unit Page

Menu Hierarchy

- Main Menu Page (Select the *Tools* Menu Option)
 - └ *Tools* Page (Select the *Delete Tools* Menu Option)
 - └ *Delete Tools* Page (Select the *Delete Unit* Menu Option)
 - └ *Tools - Delete Unit* Page

Page Description

The *Tools - Delete Unit* Page provides 3 different mechanisms for deleting a fitting from the system.



Page Item Function

Page Item Selected	Action
<i>Back Button</i>	Displays the <i>Delete Tools</i> Page, refer to 4.2 Delete Tools Page
<i>Delete by List Menu Option</i>	Displays the <i>Delete Unit by List</i> Page, a unit list is displayed and units can be deleted by selecting them
<i>Delete by SPUID Menu Option</i>	Displays the <i>Delete by SPUID</i> Page, allows the deletion of a unit by entering its SPUID
<i>Delete by MAC Menu Option</i>	Displays the <i>Delete by MAC</i> Page, allows the deletion of a unit by entering its MAC address

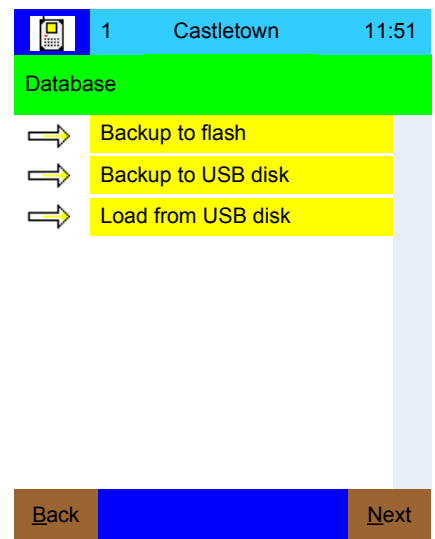
4.4 Database Page

Menu Hierarchy

- Main Menu Page (Select the *Tools* Menu Option)
 - └ Tools Page (Select the *Database* Menu Option)
 - └ Database Page

Page Description

The *Database* Page provides functions to save and delete the system database to/from a USB stick.



Page Item Function

Page Item Selected	Action
<i>Back Button</i>	Displays the <i>Tools</i> Page, refer to 4.1 Tools Page
<i>Backup to flash Menu Option</i>	Reserved for TNB Service Representatives
<i>Backup to USB disk Menu Option</i>	Backs up the database to a USB flash stick
<i>Load from USB disk Menu Option</i>	Loads a previously saved DB from a USB stick to the AC

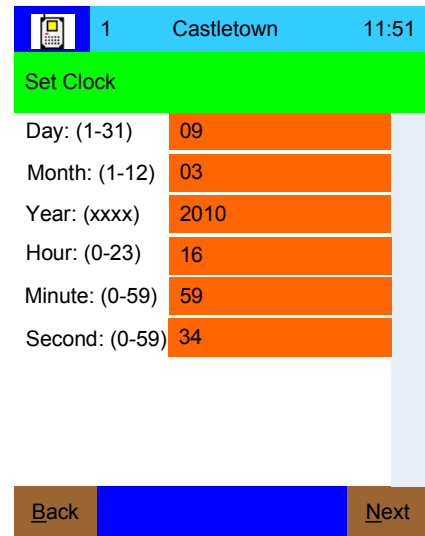
4.5 Set Clock Page

Menu Hierarchy

- Main Menu Page (Select the *Tools* Menu Option)
 - └ *Tools* Page (Select the *Set Clock* Menu Option)
 - └ *Set Clock* Page

Page Description

The *Set Clock* Page displays the controllers current date and time settings and allows the date and time settings to be edited.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Tools</i> Page, refer to 4.1 <i>Tools</i> Page
Any parameter field	Allows the AC's current date and time to be edited

5. Emergency Light Testing Menu Option

The *Emergency Light Testing* Menu provides a series of functions related to groups and testing the system.

In This Chapter

Emergency Light Testing Page	23
Groups in Domain Page	24
Group Menu Page	25
Units in Group Page	26
Group Status Page	27
Group Details Page	27
Group Discharge Test Page	28
Add Units to Group Page	29

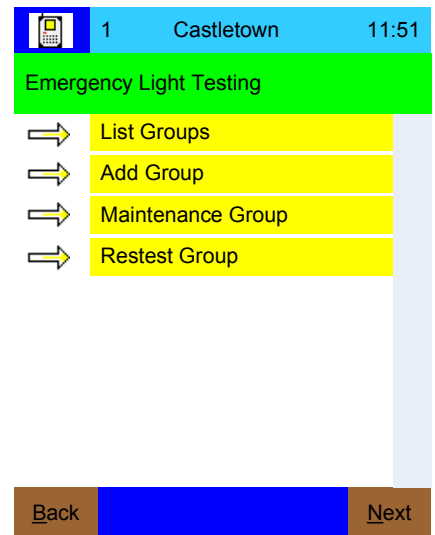
5.1 Emergency Light Testing Page

Menu Hierarchy

Main Menu Page (Select the *Emergency Light Testing* Menu Option)
 └─ *Emergency Light Testing* Page

Page Description

The *Emergency Light Testing* Page provides a series of group related functions.



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Main Menu Page</i> , refer to 1.6 The Main Menu
List Groups Menu Option	Displays the <i>Groups in Domain Page</i> , refer to 5.2 Groups in Domain Page
Add Group Menu Option	Displays the <i>Add Group Page</i> , allows data to be entered to create a new group ie group name and group ID
Maintenance Group Menu Option	Displays the <i>Group Menu Page</i> for the Maintenance Group, refer to 5.3 Group Menu Page
Retest Group Menu Option	Displays the <i>Group Menu Page</i> for the Retest Group, refer to 5.3 Group Menu Page

5.2 Groups in Domain Page

Menu Hierarchy

Main Menu Page (Select the *Emergency Light Testing Menu Option*)

└ Emergency Light Testing Page (Select the *List Groups Menu Option*)

└ Groups in Domain Page

Page Description

The *Groups in Domain Page* lists the groups that are currently configured in the Domain. The groups are listed in numeric order according to their Group ID.



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Emergency Light Testing Page</i> , refer to 5.1 Emergency Light Testing Page
Scroll Bar	Navigation to additional pages of groups
One of the groups	Displays the <i>Group Menu Page</i> for this group, refer to 5.3 Group Menu Page

5.3 Group Menu Page

Menu Hierarchy

Main Menu Page (Select the *Emergency Light Testing* Menu Option)

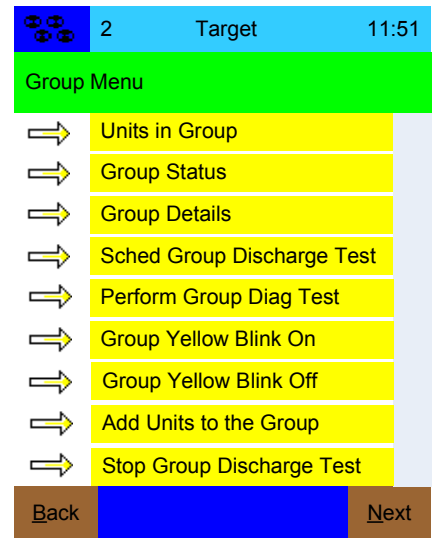
└ Emergency Light Testing Page (Select the *List Groups* Menu Option)

└ Groups in Domain Page (Select a group)

└ Group Menu Page

Page Description

The *Group Menu* Page provides a series of functions/tools related to the currently selected group.



Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Groups in Domain</i> Page, refer to 5.2 <i>Groups in Domain</i> Page
<i>Units in Group</i> Menu Option	Displays the <i>Units in Group</i> Page, refer to 5.4 <i>Units in Group</i> Page
<i>Group Status</i> Menu Option	Displays the <i>Group Status</i> Page, refer to 5.5 <i>Group Status</i> Page
<i>Group Details</i> Menu Option	Displays the <i>Group Details</i> Page, refer to 5.6 <i>Group Details</i> Page
<i>Schedule Group Discharge Test</i> Menu Option	Displays the <i>Group Discharge Test</i> Page, refer to 5.7 <i>Group Discharge Test</i> Page
<i>Perform Group Diagnostic Test</i> Menu Option	Initiates a diagnostic test on all units currently allocated to this group
<i>Group Yellow Blink On</i> Menu Option	All units currently allocated to the group will go into the yellow blink mode
<i>Group Yellow Blink Off</i> Menu Option	All units currently allocated to the group that are currently operating in yellow blink mode will be returned to normal led operation
<i>Add units to this group</i> Menu Option	Displays the <i>Add Unit to Group</i> Page, refer to 5.8 <i>Add Units to Group</i> Page
<i>Stop group discharge test</i> Menu Option	This function will stop the currently running discharge test

5.4 Units in Group Page

Menu Hierarchy

- Main Menu Page (Select the *Emergency Light Testing* Menu Option)
 - ↳ *Emergency Light Testing* Page (Select the *List Groups* Menu Option)
 - ↳ *Groups in Domain* Page (Select a group)
 - ↳ *Group Menu* Page (Select the *Units in Group* Menu Option)
 - ↳ *Units in Group* Page

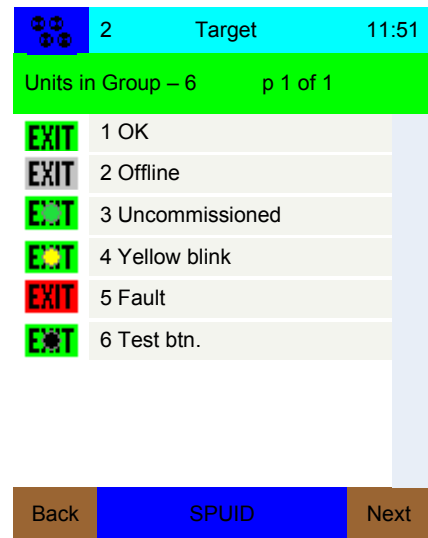
Page Description

The *Units in Group* Page displays a list of all the units that are currently allocated to the selected group (9 units per page). The fittings are listed in numerical order according to their SPUID.

Mode Button Options

The *Mode* Button allows the operator to select different display modes for the unit information.

- SPUID** – Displays the unit SPUID and Status
- MAC** – Displays the unit MAC and Status
- SAM** – Displays the unit SPUID, MAC and Status
- LOC** – Displays the unit SPUID and Location
- GRP** – Displays the unit SPUID and Group Assignment
- SIG** – Displays the unit SPUID, MAC, System ID and Signal Strength
- NET** – Displays the unit Network Address and Status



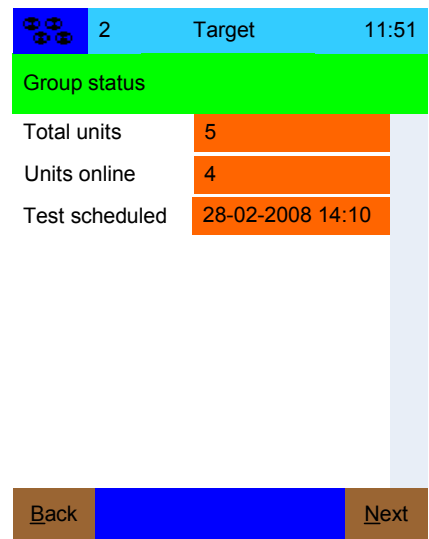
Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Group Menu</i> Page, refer to 5.3 Group Menu Page
Scroll Bar	Navigation to additional pages of units
One of the units	Displays the <i>Unit Menu</i> Page for this unit, refer to 2.2 Unit Menu Page

5.5 Group Status Page

Menu Hierarchy

- Main Menu Page (Select the *Emergency Light Testing* Menu Option)
 - ↳ *Emergency Light Testing* Page (Select the *List Groups* Menu Option)
 - ↳ *Groups in Domain* Page (Select a group)
 - ↳ *Group Menu* Page (Select the *Group Status* Menu Option)
 - ↳ *Group Status* Page



Page Description

The *Group Status* Page displays the status of the currently selected group.

Parameter Fields

Total Units – The total number of fittings currently allocated to this group

Units Online – The number of fittings currently allocated to this group and are online

Test Scheduled – The date/time of the next scheduled discharge test for this group

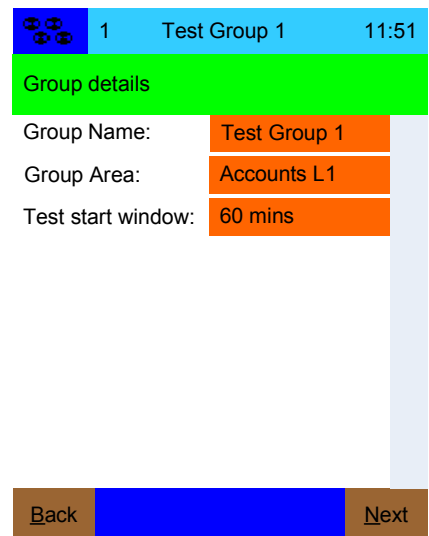
Page Item Function

Page Item Selected	Action
<i>Back</i> Button	Displays the <i>Group Menu</i> Page, refer to 5.3 <i>Group Menu</i> Page

5.6 Group Details Page

Menu Hierarchy

- Main Menu Page (Select the *Emergency Light Testing* Menu Option)
 - ↳ *Emergency Light Testing* Page (Select the *List Groups* Menu Option)
 - ↳ *Groups in Domain* Page (Select a group)
 - ↳ *Group Menu* Page (Select the *Group Details* Menu Option)
 - ↳ *Group Details* Page



Page Description

The *Group Details* Page displays the selected groups configuration details.

Parameter Fields

Group Name – The name of the group

Group Area – An additional text field available to describe the area served by the group

Test Start Window – This is the time period, after the scheduled diagnostic test date/time, for which the system will attempt to put fittings belonging to this group into test. In particular it is aimed at ensuring that fittings that belong to the group, that are temporarily offline, go into test once they reconnect to the RF network. The default time for this parameter is 60 mins.

Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Group Menu Page</i> , refer to 5.3 Group Menu Page
Group Name or Group Area Parameter Fields	Displays the <i>Edit Group Name Page</i> , allows the group name and group area fields to be edited
Test Start Window Parameter Field	Displays the <i>Edit Group Test Window Page</i> , allows the test start window parameter to be edited

5.7 Group Discharge Test Page

Menu Hierarchy

Main Menu Page (Select the *Emergency Light Testing* Menu Option)

└ Emergency Light Testing Page (Select the *List Groups* Menu Option)

└ Groups in Domain Page (Select a group)

└ Group Menu Page (Select the *Schedule Group Discharge Test* Menu Option)

└ Group Discharge Test Page

Page Description

The *Group Discharge Test* Page displays this groups current discharge test scheduling information and allows the group testing to be scheduled.

Parameter Fields

Day: (1-31) – The day of the month for the discharge test

Month: (1-12) – The month of the year for the discharge test

Year: (xxxx) – The year for the discharge test

Hour: (0-23) – The hour of the day for the discharge test

Minute: (0-59) – The minute of the hour for the discharge test

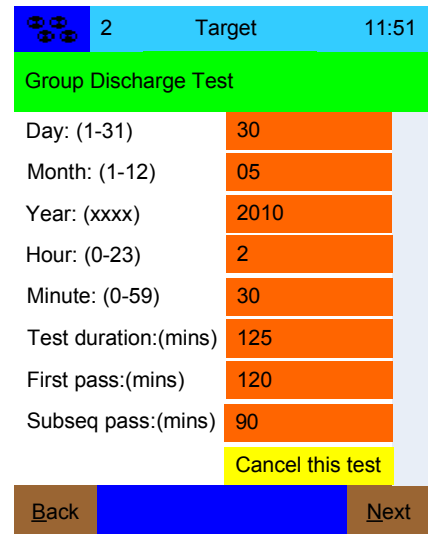
Test Duration:(mins) – The duration that the test should run for

First Pass:(mins) – This parameter is not configurable, the standard dictates that all new fittings must pass a 120min discharge test

Subseq Pass:(mins) – This parameter is not configurable, the standard dictates that all fittings must pass a 90min discharge test

Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Group Menu Page</i> , refer to 5.3 Group Menu Page
Any parameter field	Allows the editing of the groups scheduled test parameters
Cancel this test Menu Option	De-schedules the current discharge test schedule



The screenshot shows a web interface for scheduling a group discharge test. At the top, there are three tabs: '2' (selected), 'Target', and '11:51'. Below the tabs is a green header bar labeled 'Group Discharge Test'. The main content area contains several input fields for scheduling parameters, each with a value: Day: (1-31) 30, Month: (1-12) 05, Year: (xxxx) 2010, Hour: (0-23) 2, Minute: (0-59) 30, Test duration:(mins) 125, First pass:(mins) 120, and Subseq pass:(mins) 90. Below these fields is a yellow button labeled 'Cancel this test'. At the bottom of the form are two buttons: 'Back' and 'Next'.

5.8 Add Units to Group Page

Menu Hierarchy

Main Menu Page (Select the *Emergency Light Testing* Menu Option)

└ Emergency Light Testing Page (Select the *List Groups* Menu Option)

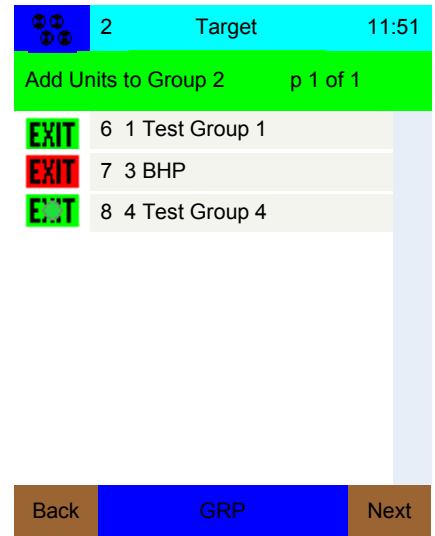
└ Groups in Domain Page (Select a group)

└ Group Menu Page (Select the *Add Units to this Group* Menu Option)

└ Add Units to Group Page

Page Description

The *Add Units to Group* Page displays a list of all the fittings in the domain that are not currently allocated to this group and are online (9 units per page).



Page Item Function

Page Item Selected	Action
Back Button	Displays the <i>Group Menu</i> Page, refer to 5.3 Group Menu Page
Scroll Bar	Navigation to additional pages of units
One of the units	The selected unit will be removed from its current group and assigned to this group. The unit will be removed from this page.

6. AC Unit Functions

This chapter provides step-by-step instructions for performing the systems unit related functions. The starting point for each of the instruction sequences is the *Main Menu* Page.

In This Chapter

Commissioning a New SPU into the System	30
Decommissioning a	32
Deleting a Unit from the System	33
Viewing a Units Details	34
Viewing a Units Current Status	34
Editing a Units Location Details	35
Changing a Units Group Assignment	36
Yellow Blinking a	36
Calibrating a Units LDR	37
Performing a Unit Diagnostic Test	37
Viewing a Units Test Result History	38
Viewing a Units Maintenance History Log	38
Adding a Unit Maintenance History Record	39

6.1 Commissioning a New Unit into the System

The following steps cover the process of commissioning a new unit into an existing Nexus RF System.

Assumptions / Pre-requisites

- The unit is brand new with an SPUID of 0 (ie it is not commissioned) and a System ID of 1
- The existing Nexus RF System is configured for System ID 1
- The unit has been installed, powered up and sufficient time (approx 10mins) has been allowed for it to join one of the sites existing RF Meshes
- The MAC address of the unit has been noted down and a currently unallocated SPUID has been identified

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.9 Unit Tools Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) The *Units in Domain* Page displays the unit's in numerical order, so the uncommissioned units (ie

- SPUID's of 0) will be displayed at the very top of the *Units in Domain* Page. The uncommissioned units are displayed in numerical order according to their MAC address
- 4) Select the unit to be commissioned, note the correct unit will be identified by its MAC Address. The *Unit Menu* Page will be displayed for this unit
 - 5) Confirm that the unit MAC address displayed at the top of the *Unit Menu* Page corresponds to the unit that you plan to commission. If it does not, select the *Back* button to return to the *Units in Domain* Page as described in Step 3
 - 6) Select the *Unit Tools* Menu Option to display the *Unit Tools* Page
 - 7) Select the *Commission Unit* Menu Option to display the *Commission Unit* Page
 - 8) Enter the SPUID to which this unit is to be commissioned into the *SPUID* numeric field and press the *Next* Button
 - 9) The *Commissioning – Confirm* Page will be displayed requesting that you confirm the SPUID assignment, confirm the assignment by selecting the *Next* Button
 - 10) The display will now indicate that the command has been sent and that the AC is waiting on confirmation that the commissioning command has been successfully completed. The time frame for a unit to be commissioned is dependant on several factors, including the controller to which the unit is currently meshed and the number of hop counts between the controller and the unit. Under the worst case conditions the process should not take in excess of 2 minutes. If you do not receive confirmation after 2 minutes it is safe to assume that the commissioning process has failed. In this case you should press the *Back* button to return to the *Unit Tools* Page as in Step 6 and attempt the process again
 - 11) On successful completion of the unit commissioning the screen will display “This unit has been commissioned successfully”
 - 12) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.2 Decommissioning a Unit

The following steps cover the process involved with decommissioning a unit ie assigning the unit an SPUID of 0

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.9 Unit Tools Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to be decommissioned, this will display the *Unit Menu* Page for this unit
- 4) Confirm that the unit MAC address displayed at the top of the *Unit Menu* Page corresponds to the unit that you plan to decommission. If it does not select the *Back* button to return to the *Units in Domain* Page as described in Step 1
- 5) Select the *Unit Tools* Menu Option to display the *Unit Tools* Menu
- 6) Select the *Decommission Unit* Menu Option to initiate the decommissioning process for this unit.
- 7) The *Decommissioning SPU Confirm* Page is displayed, select the *Next* Button to confirm the decommissioning process
- 8) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

6.3 Deleting a Unit from the System

The following steps cover the process involved with deleting a unit from the system.

Assumptions / Pre-requisites

It should be noted that deleting a unit from the system only makes sense if it is no longer communicating with the system. Deleting a unit from the system that is still communicating will only be temporary as it will rejoin the network as soon as possible and will re-appear on the system.

There are 3 mechanisms for selecting a unit for deletion, these are:

- Viewing a list of all units and selecting the unit to be deleted from this list
- Entering the SPUID of the unit to be deleted, not the preferred mechanism as the system may well have duplicated SPUID's
- Entering the MAC address of the unit to be deleted

The following steps only cover the first option, where the unit to be deleted is selected from the list of units in the system.

Sections Referred To

- 4.1 Tools Page
- 4.2 Delete Tools Page
- 4.3 Tools – Delete Unit Page

Steps Involved

- 1) Select the *Tools* Menu Option to display the *Tools* Page
- 2) Select the *Delete tools* Menu Option to display the *Delete Tools* Page
- 3) Select the *Delete unit* Menu Option to display the *Tools – Delete Unit* Page
- 4) Select the *Delete by List* Menu Option, this will display the *Delete unit by list* Page, providing you the list of units in the system
- 5) Use the *MODE* Button to change the AC display to the *SAM* mode
- 6) Select the unit to be deleted, the unit will be deleted and removed from the Page. Additional units can be deleted by selection of these units
- 7) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.4 Viewing a Units Details

The following steps cover the process involved with displaying a unit's details. The details available are the fitting type, FW version, MAC address and group assignment.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.6 Unit Details Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit for which unit details are to be viewed, this will display the *Unit Menu* Page for this unit
- 4) Confirm that the unit MAC address displayed at the top of the *Unit Menu* Page corresponds to the unit that you are interested in. If it does not select the *Back* Button to return to the *Units in Domain* Page as described in Step 1
- 5) Select the *Unit Details* Menu Option to display the *Unit Details* Page, the units details are displayed on this page
- 6) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

6.5 Viewing a Units Current Status

The following steps cover the process involved with displaying a units current status.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.3 Unit Status Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit, for which status is to be viewed, this will display the *Unit Menu* Page for this unit
- 4) Confirm that the unit MAC address displayed at the top of the *Unit Menu* Page corresponds to the unit that you are interested in. If it does not press the *Back* button to return to the *Units in Domain* Page as described in Step 1
- 5) Select the *Unit status* Menu Option to display the *Unit Status* Page, the units current status is summarized on this page
- 6) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.6 Editing a Units Location Details

The following steps cover the process involved with editing a Units Location Details.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.5 Unit Location Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit for which the Location Details are to be edited, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Location* Menu Option to display the *Unit Location* Page
- 5) Select any one of the location data fields to display the *Enter Unit Location* Page. All of the current location data will be displayed in editable text fields. You can now navigate to each of the fields and edit the data as required
- 6) On completion of editing the location data select the *Next* Button to confirm the changes. The *Unit Location* Page will be re-displayed with your edited location data
- 7) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.7 Changing a Units Group Assignment

The following steps cover the process involved with changing the group assignment for a unit.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.6 Unit Details Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit for which the group assignment is to be changed, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Details* Menu Option to display the *Unit Details* Page
- 5) The current group assignment for this unit is displayed on the *Unit Details* Page. Select the *Group* Parameter to display the *Change Group* Page
- 6) Enter the group ID for this units new group assignment into the *New grp ID* text field provided and select the *Next* Button to confirm the change
- 7) At this point you can navigate back to the *Main Menu* Page by successive presses of the *Back* Button

6.8 Yellow Blinking a Unit

The following steps cover the process involved with enabling a Unit's Yellow Blink Function.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.9 Unit Tools Page

Steps Involved

- 1) Select the Units in Domain Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to put into yellow blinking mode, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Tools* Menu Option from the *Unit Menu* Page and select the *Enter* Button to display the *Unit Tools* Page
- 5) Select the *Yellow Blink On* Menu Option to set this unit into yellow blink mode. The led on the selected unit should be yellow blinking and the unit icon on the AC should reflect this by displaying a yellow dot
- 6) You can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.9 Calibrating a Units LDR

The following steps cover the process of calibrating a units LDR. Calibrating a units LDR assigns the current lamp output as the 100% light reference level, as such it is important to note that an LDR calibration should only be performed on a unit fitted with a new lamp.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.9 Unit Tools Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to have its LDR calibrated, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Tools* Menu Option from the *Unit Menu* Page to display the *Unit Tools* Page
- 5) Select the *Calibrate LDR* Menu Option from the *Unit Tools Menu* Page to perform the LDR calibration
- 6) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.10 Performing a Unit Diagnostic Test

The following steps cover the process of performing a diagnostic test (a 1 minute test) on a particular unit.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.7 Unit Test Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to put into diagnostic test, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Test* Menu Option to display the *Unit Test* Page
- 5) Select the *Diagnostic Test* Menu Option to display the *Diagnostic Test* Page
- 6) Select the *Perform Diagnostic Test* Menu Option to initiate the diagnostic test. At this point the selected unit should go into diagnostic test and its icon should reflect this by displaying a red dot
- 7) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.11 Viewing a Units Test Result History

The following steps cover the process of viewing a particular units test result history, including discharge and diagnostic tests.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.7 Unit Test Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to have its test result history reviewed, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Test* Menu Option to display the *Unit Test* Page
- 5) Select the *Previous Tests* Menu Option to display the *Previous Test* Page. Each previous test result entry is allocated to a single page, with the oldest test result entry being displayed on the first page. The scroll bar can be used to move up and down through the units test result history entries
- 6) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.12 Viewing a Units Maintenance History Log

The following steps cover the process of viewing a particular units maintenance history log.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.8 Unit Maintenance Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to have its maintenance log reviewed, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Maintenance* Menu Option to display the *Unit Maintenance* Page
- 5) Select the *List Unit Maintenance* Menu Option to display the *Maintenance History* Page. Each maintenance history entry is allocated to a single page, with the most recent maintenance history entry being displayed on the first page. The scroll bar can be used to move up and down through the maintenance history entries
- 6) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

6.13 Adding a Unit Maintenance History Record

The following steps cover the process of adding a new maintenance history record to a specific unit.

Sections Referred To

- 2.1 Units in Domain
- 2.2 Unit Menu
- 2.8 Unit Maintenance Page

Steps Involved

- 1) Select the *Units in Domain* Menu Option to display the *Units in Domain* Page
- 2) Use the *MODE* Button to change the AC display to the *SAM* mode
- 3) Select the unit which is to have a maintenance history record added, this will display the *Unit Menu* Page for this unit
- 4) Select the *Unit Maintenance* Menu Option to display the *Unit Maintenance* Page
- 5) Select the *Add Unit Maintenance Record* Menu Option to display the *Unit Maintenance Add Record* Page
- 6) Select the Change options, from the list of 7 items, that apply to this maintenance record. A green tick will appear next each of the selected Change options. Note multiple Change options can be selected for a single maintenance record ie you may have changed the battery and the diffusers
- 7) Select the parameter field marked as Operator: Company: Note to display the *Maintenance Record Edit Note* Page
- 8) Enter the Operator, Company and Note data into the appropriate text edit boxes and select the *Next* Button to accept the data changes and return the AC to the *Unit Maintenance Add Record* Page
- 9) Select the *Save* Menu Option to save this maintenance history record, the AC will return to the *Unit Maintenance* Page
- 10) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7. Group and Testing Related Functions

In This Chapter

List the Groups in the System	40
Adding a New Group	41
Deleting an Existing Group	41
Viewing the Units Assigned to a Group	42
Viewing a Groups Status	42
Viewing/Editing a Groups Details	43
Scheduling a Group Discharge Test	44
Performing a Diagnostic Test on a Group	44
Yellow Blinking all Fittings in a Group	45
Adding Units to a Group	46
Stopping an Active Group Discharge Test	46

7.1 List the Groups in the System

The following steps cover the process of listing the groups currently in the system. All of the Groups in the system are listed on the *Groups in Domain* Page.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page, all of the groups in the system are displayed on this page
- 3) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.2 Adding a New Group

The following steps cover the process of adding additional groups to the system.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *Add Group* Menu Option to display the *Add Group* Page
- 3) The next available Group ID will be displayed automatically. Enter the name of the new group into the text field provided, then select the *Next* Button to create the new group
- 4) The display will return to the *Groups in Domain* Page where the newly created group will be listed
- 5) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.3 Deleting an Existing Group

The following steps cover the process of deleting a group from the system.

Sections Referred To

- 4.1 Tools Page
- 4.2 Delete Tools Page

Steps Involved

- 1) Select the *Tools Menu* Option to display the *Tools* Page
- 2) Select the *Delete Tools* Menu Option to display the *Delete Tools* Page
- 3) Select the *Delete Group* Menu Option to display the *Delete Group* Page. This page lists all of the Groups in the domain
- 4) Select the group to be deleted, the AC display will be refreshed with the deleted group removed
- 5) Additional groups can be deleted by repeating step 4
- 6) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.4 Viewing the Units Assigned to a Group

The following steps cover the process of viewing a list of units currently assigned to a specific group.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page
- 5.4 Units in Group Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to view the unit assignment, this will display the *Group Menu* Page for this group
- 4) Select the *Units in Group* Menu Option to display the *Units in Group* Page, this page displays all of the units that are currently assigned to this group
- 5) At this point you can navigate back to the *Main Menu* Page by successive selections of the *Back* Button

7.5 Viewing a Groups Status

The following steps cover the process of viewing a groups current status. This status includes the scheduled test date/time for this group and the number of units assigned to this group.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page
- 5.5 Group Status Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to view the current status, this will display the *Group Menu* Page for this group
- 4) Select the *Group Status* Menu Option to display the *Group Status* Page
- 5) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.6 Viewing/Editing a Groups Details

The following steps cover the process of viewing/editing a groups current configuration details.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page
- 5.6 Group Details Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to view the current status, this will display the *Group Menu* Page for this group
- 4) Select the *Group Details* Menu Option to display the *Group Details* Page
- 5) To edit the *Group Name* and *Group Area* Parameters, select either parameter to to display the *Edit Group Name* Page. Edit the parameter fields and select the *Next* Button to save the changes
- 6) To edit the *Test Start Window* Parameter, select the parameter to display the *Edit Group Test Window* Page. Edit the parameter field and select the *Next* Button to save the changes
- 7) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.7 Scheduling a Group Discharge Test

The following steps cover the process of scheduling a discharge test on a group.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page
- 5.7 Group Discharge Test Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to schedule a discharge test, this will display the *Group Menu* Page for this group
- 4) Select the *Schedule Group Discharge Test* Menu Option to display the *Group Discharge Test* Page
- 5) To schedule a new discharge test or edit the currently configured schedule test date/time select any of the parameter fields to display the *Edit Group Discharge Test* Page
- 6) Edit the parameter fields as required and select the *Next* Button to save the changes. The AC display will automatically return to the *Group Discharge Test* Page allowing you to confirm that the discharge test scheduled for this group has been set/changed
- 7) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.8 Performing a Diagnostic Test on a Group

The following steps cover the process of performing a diagnostic test on all fittings currently assigned to a group.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to perform a diagnostic test, this will display the *Group Menu* Page for this group
- 4) Select the *Perform Group Diagnostic Test* Menu Option to initiate the group diagnostic test
- 5) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.9 Yellow Blinking all Fittings in a Group

The following steps cover the process of setting all units currently assigned to a group into yellow blink mode.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to enable the yellow blinking mode, this will display the *Group Menu* Page for this group
- 4) Select the *Group Yellow Blink On* Menu Option to initiate the process of placing all fittings assigned to this group into the yellow blink mode
- 5) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.10 Adding Units to a Group

The following steps cover the process of removing units from their current group and assigning them to a specific group. Individual units can have their group assignment changed by the process detailed in section 6.7 Changing a Units Group Assignment, but if you need to assign more than one unit to a specific group this is the more efficient process.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page
- 5.8 Add Units to Group Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want to add units, this will display the *Group Menu* Page for this group
- 4) Select the *Add Units to this Group* Menu to display the *Add Units to Group* Page. This page lists all online units in the domain that are currently not assigned to this group
- 5) Select the fitting to be assigned to this group, the AC display will be refreshed with the assigned fitting removed from the display ie it has been assigned to the group
- 6) Additional fittings can be assigned to this group by repeating the step 5
- 7) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

7.11 Stopping an Active Group Discharge Test

The following steps cover the process of stopping a currently running group discharge test.

Sections Referred To

- 5.1 Emergency Light Testing Page
- 5.2 Groups in Domain Page
- 5.3 Group Menu Page

Steps Involved

- 1) Select the *Emergency Light Testing* Menu Option to display the *Emergency Light Testing* Page
- 2) Select the *List Groups* Menu Option to display the *Groups in Domain* Page
- 3) Select the group for which we want stop an active discharge test, this will display the *Group Menu* Page for this group
- 4) Select the *Stop Group Discharge Test* Menu Option to stop the active discharge test
- 5) At this point you can navigate back to the *Main Menu* Page by successive selection of the *Back* Button

8. Glossary of Terms

AUSTRALIAN STANDARD / NEW ZEALAND STANDARD 2293 (AS/NZS 2293)

The STANDARD that sets out the requirements for the design, installation and operation of emergency evacuation lighting systems for buildings. Divided into 3 parts: - Part 1, System design, installation and operation; - Part 2, Inspection and maintenance; - Part 3, Emergency luminaires and exit signs.

AUSTRALIAN STANDARD 3000 (AS 3000)

Electrical installations - Buildings, structures and premises (SAA Wiring Rules). The STANDARD that defines the method of installation for the wiring of medium to high voltage electrical installations.

NEXUS RF

Nexus RF is the Thomas & Betts Emergency Light Monitoring System. This product utilizes RF meshing to communicate from each of the controllers to their allocated units.

AC – AREA CCONTROLLER

The main controller within a Nexus RF System. Unlike an ACR the AC includes a keypad and touch screen interface for performing operational functions.

ACR – AREA CONTROLLER ROUTER

The secondary controllers within a Nexus RF System. In terms of RF operation the AC and ACR are identical. Unlike an AC the ACR does not have a keypad and touch screen interface.

GROUP

A logical construct allowing a collection of units within the system, to be tested at the same time.

MAINTENANCE GROUP

A collection of all the units with either status or test faults.

RETEST GROUP

A special test group that units who require retesting after repair works can be assigned.

SPU

Single Point Unit. The term for an emergency light fitting (unit) that stands alone (at a single point) and includes its own rechargeable battery and battery charger. When normal mains power to it fails, it automatically energises its emergency lamp until the power is restored or the battery discharges.

SPUID

This is a purely sequential number applied to a unit as it is commissioned. All uncommissioned units will have an SPUID of 0.