

# **RAPIX**

## **EMERGENCY**

Version 1.08

# **SOFTWARE MANUAL**

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Member of the Gerard Lighting Group



**DIGINET**  
CONTROL SYSTEMS

# **RAPIX Emergency Manual**

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# Table of Contents

Foreword	0
<b>Part I Introduction</b>	<b>4</b>
1 End User License Agreement.....	4
2 Glossary of Terms.....	7
<b>Part II Software Installation</b>	<b>9</b>
1 System Requirements.....	9
2 Installing RAPIX Emergency.....	10
3 Running RAPIX Emergency.....	11
4 Set Up Licensing.....	13
<b>Part III Commissioning a Site</b>	<b>15</b>
1 User Interface (Configuration Mode).....	15
DALI Lines Tab .....	19
Scheduled Tests Tab (Configuration Mode) .....	24
Email Settings Tab .....	26
Contact Info Tab (Configuration Mode) .....	28
DALI Address Status Grid .....	28
2 Basic Working Procedures.....	30
Configuring DALI Interfaces .....	30
Discover DALI Interface Devices .....	34
Setting Static IP Addresses .....	35
DALI Interface Device Properties .....	35
Discovering DALI Devices .....	36
Identifying and Naming Devices .....	36
Programming Short Addresses .....	37
Setting Up Schedules .....	39
Auto-build Schedules .....	42
Password Management .....	42
Auto-configure Test Plan .....	43
<b>Part IV Monitoring a Site</b>	<b>44</b>
1 User Interface (Run Mode).....	44
Dashboard Tab .....	48
Device Status Tab .....	50
Scheduled Tests Tab (Run Mode) .....	55
Test Reports Tab .....	56
Contact Info Tab (Run Mode) .....	57
2 Basic Working Procedures.....	58
Run a Manual Function Test .....	58
Scheduling a Manual Discharge Test .....	60
Stopping Active Schedules .....	64
3 Test Reports.....	64
<b>Index</b>	<b>67</b>

# 1 Introduction



Welcome to RAPIX Emergency, the best in class software application for monitoring emergency lighting luminaires.

RAPIX Emergency will allow you to:

- Perform one-click automatic commissioning and configuration of a DALI emergency system.
- Configure and run routine tests as required by the Australian Standard AS2293 for "*Emergency escape lighting and exit signs for buildings*".
- Log events and create full test and maintenance repair reports in PDF format.
- Receive email notification of important events.

## Getting Started with RAPIX Emergency

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The general process to get RAPIX Emergency to monitor the emergency DALI Devices on a site, involves:

1. Installing RAPIX Emergency on a designated computer.  
See topic [Installing RAPIX Emergency](#)<sup>10</sup> for more information.
2. Setting up licensing, which involves a license dongle and license file.  
See topic [Set Up Licensing](#)<sup>13</sup> for more information.
3. Creating and configuring a Test Plan. See section [Commissioning a Site](#)<sup>15</sup> for more information.  
This step involves:
  - a. Discovering DALI Lines and DALI Devices on DALI.
  - b. Assigning DALI Devices to test groups.
  - c. Creating Discharge Schedules and Function Schedules, and assigning them to test groups.
  - d. Setting up automatic email notifications.
4. Monitoring the site.  
See section [Monitoring a Site](#)<sup>44</sup> for more information.

Each of the four steps above will be explained within this manual.

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## 1.2 Glossary of Terms

### **AS2293**

This is the Australian Standard for emergency lighting.

### **Configuration Mode**

This is the mode in which RAPIX Emergency operates, where a Test Plan can be configured for a site.

### **DALI**

DALI is an acronym that stands for Digital Addressable Lighting Interface, which is an open standard for network-based systems that can control the lighting in buildings.

### **DALI Device**

A DALI Device as referenced in this document, is an emergency lighting device, like an exit sign, which is connected to the DALI network.

### **DALI Interface Device**

A DALI Interface Device is a device that permits the communication between DALI Devices and software over a local area network via Ethernet.

### **DALI Line**

A DALI Line consists of a pair of wires that allows the connection of multiple DALI Devices that can communicate to each other.

### **Device Presence Check**

This is a function that RAPIX Emergency can perform, which checks whether all of the DALI Devices in a Test Plan are currently connected and communicating.

### **Diginet license file**

See *license file*.

### **Discharge Schedule**

A Discharge Schedule is a schedule that can be configured in a Test Plan, which performs a discharge test on DALI Devices.

### **Discharge Test**

This is a test that is performed on emergency lighting devices, which turns on the emergency lamp and discharges the battery for a predefined period of time (normally 90 minutes or 120 minutes). An emergency lighting device that is still illuminated after this predefined period of time is considered to be OK.

### **Dongle**

This is a small purple USB dongle that must be plugged into the computer running RAPIX Emergency. This dongle, along with an associated license file, is required to run RAPIX Emergency.

### **Function Test**

This is a test that is performed on emergency lighting devices, which turns on the emergency lamp on for a few moments to ensure the correct operation of the lamp and circuit integrity. Note that this test does not perform a full discharge of the battery like a discharge test.

### **Full Test Report**

This is a test report generated by RAPIX Emergency once a discharge test or function test has completed. This report contains the full results of the test, including the results for all of the DALI Devices that performed the test.

### **Dignet Archive**

This is a compressed file that RAPIX Emergency Test Plans can be exported to, so that Test Plans can be backed up and moved between computers. The file extension for Dignet Archive files is \*.dtz.

### **IP address**

An IP address is a label, or address, assigned to devices that communicate using the IP protocol. A DALI Interface Device is one such device.

### **license file**

A license file is a file with the extension \*.lic that RAPIX Emergency requires to be properly imported for it to function.

### **Maintenance Password**

This is a password that RAPIX Emergency requires for authentication, while a Test Plan is being run, if the user wants to perform an action that requires communication with DALI, (such as scheduling a new discharge test or running a function test).

### **Repair Report**

This is a test report generated by RAPIX Emergency once a discharge test or function test has completed. This report contains details about all of the DALI Devices that failed the test, and allows the building manager to record maintenance performed on those faulty devices.

### **Run Mode**

This is the mode in which RAPIX Emergency operates, when a Test Plan is being run, such that the discharge schedules and function schedules defined within it, are being run.

### **Scheduled Test**

This is a test that exists within a Test Plan which has been scheduled to run at a future date and time, and tests whether an emergency DALI Device is functioning correctly. A scheduled test in RAPIX Emergency can either be a discharge test or a function test.

### **Short Address (SA)**

A short address is an address that each DALI Device is assigned, so that it can be identified during communication on DALI.

### **Supervisor Password**

This is a password that RAPIX Emergency requires for authentication, if the user wants interrupt the monitoring of a site via a Test Plan.

### **Test Group**

This is a logical collection of DALI Devices on a DALI Line. There can be up to eight of these per DALI Line. Discharge Schedules and Function Schedules are associated with test groups, so that the DALI Devices in a test group are tested together.

### **Test Plan**

A Test Plan is a RAPIX Emergency file that contains information about the site being tested. It contains information about the DALI Devices and how they are to be tested.

### **Test Report**

A test report is a report, that RAPIX Emergency generates in PDF format, which contains information about the results of a discharge test or function test. A test report is generated when a test completes.

## 2 Software Installation

### 2.1 System Requirements

The minimum system requirements for running RAPIX Emergency are as follows:

**Processor:** Intel Core i5 or higher.

**Memory:** 4 GB.

**Hard Disk:** 1 GB free.

**Ports:** 1 x USB 2.0 port and 1 x Ethernet port.

**Operating System:** Microsoft Windows 7 Professional.

**PDF Reader:** Adobe Reader or an equivalent PDF viewer is required to view test reports.

#### Automatic Start Up

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A feature of RAPIX Emergency is that it is designed to start up automatically when the PC is started and a user is logged in, ensuring that emergency luminaires continue to be monitored. For this functionality to occur, other system requirements may need to be considered. A UPS (Uninterruptible Power Supply) can be used, and this is recommended for larger installations.

If no UPS is used, it is still possible to have the PC running RAPIX Emergency start up after a power failure.

#### Auto Start Up If a UPS Is Used

If the power supply of the PC running RAPIX Emergency is connected to a UPS, ensure that the UPS is configured to automatically:

- Shut down the PC running RAPIX Emergency when the UPS power supply runs low.
- Start up the PC running RAPIX Emergency when mains power is restored.

**Note:** Information on how to set up a UPS is outside the scope of this document. For assistance, you may require the assistance of IT support personnel.

#### Auto Start Up If No UPS Is Used

If no UPS is used, the PC will need to be configured to automatically start up when mains power is applied. This can be set up in the BIOS settings of the PC.

**Note:** BIOS settings differ between PC manufacturers. You may require the PC's manual or the assistance of IT support personnel.

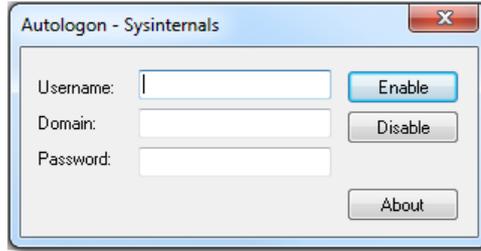
#### Automatic Logon

---

Ensure that a user is automatically logged on to the PC when the PC is started, so that RAPIX Emergency is run.

This can be done by using the **Autologon** utility, which is part of the **SysInternals Suite** provided by Microsoft. It can be downloaded from the following link:

<http://technet.microsoft.com/en-au/sysinternals/bb963905>



The Autologon utility

To automatically log a user onto the PC when it starts up, run the **Autologon** utility, and enter the username and password of the user to be automatically logged on, and click the **Enable** button.

## 2.2 Installing RAPIX Emergency

To install RAPIX Emergency, run the installer executable. This will prepare the installer so it is ready to use.

The installer is a wizard that will guide you through the steps to install RAPIX Emergency.

1. Click **Next** on the splash page.



2. Click **Next** on the *Welcome to the InstallShield Wizard for RAPIX Emergency (DALI)* page.
3. Read the End-user License Agreement and agree to it by clicking the **I accept** radio button, then click **Next** to start the installation.  
Windows may ask for permission to run the installer, to which you answer **Yes**.
4. Next, a dialogue will appear asking for passwords.

**RAPIX Emergency (DALI) - Password Setup**

**Create New RAPIX Emergency (DALI) Passwords**  
Enter a Supervisor and Maintenance and Password below for RAPIX Emergency (DALI). These passwords can be changed later.

**Supervisor Password**  
The Supervisor Password provides full access to RAPIX Emergency (DALI). This allows the creation and configuration of Test Plans; the ability to schedule automated tests; and to perform manual testing of Emergency DALI Devices.

Supervisor Password:  !  
Verify Password:  !  
Password Strength: **Very Weak**

**Maintenance Password**  
The Maintenance Password provides limited access to RAPIX Emergency (DALI). This allows for manual testing of Emergency DALI Devices.

Maintenance Password:  !  
Verify Password:  !  
Password Strength: **Very Weak**

OK Cancel Installation

The **Supervisor Password** allows full access to RAPIX Emergency, which allows for the creation and configuration of emergency Test Plans, as well as the ability to schedule automated tests of emergency luminaires. Installers and building managers would use this password.

The **Maintenance Password** allows limited access to RAPIX Emergency, which allows only for manual testing of emergency luminaires.

The passwords entered here can be changed from within RAPIX Emergency later.

Enter a new **Supervisor Password** and **Maintenance Password** then click **OK**.

**Important:** Write these passwords down and keep them in a safe and secure place.

5. The installer will continue the installation, and then when complete, will display a page which provides the option to run RAPIX Emergency immediately.

Click **Finish** to complete the installation.

## 2.3 Running RAPIX Emergency

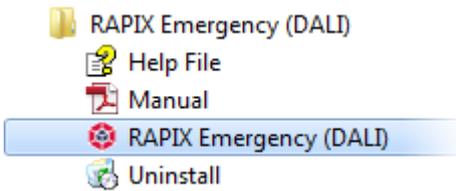
RAPIX Emergency is designed to automatically start up when the PC is started, so that in the case of a power cut, when the power is restored, the system can continue to monitor emergency luminaires.

If RAPIX Emergency exits abnormally, it will automatically get restarted.

If, for any reason, RAPIX Emergency is not running, it can be started by following the steps below:

1. Open the **Start** menu.
2. Click **All Programs**.
3. Open **Diginet** folder, then the **RAPIX Emergency (DALI)** folder.

4. Click **RAPIX Emergency (DALI)**.



## The Welcome Screen

When RAPIX Emergency first runs, the welcome screen will be displayed.



The welcome screen

### Buttons on the Welcome Screen

The welcome screen provides buttons to create a new Test Plan, to open an existing Test Plan, or to run a previously-configured Test Plan.

**Note:** Clicking most of the buttons below will require a supervisor password before performing the function. See topic [Password Management](#)<sup>42</sup> for more information on passwords.

#### "Create a new Test Plan" button

Click this button to create a new Test Plan and start configuring it. See topic [User Interface \(Configuration Mode\)](#)<sup>15</sup> for more information on the Configuration Mode user interface.

#### "Auto-configure Test Plan" button

Click this button to:

1. Create a new Test Plan; then

2. Automatically discover any DALI Interface Devices on the local area network; then
3. Automatically discover any DALI Devices connected to them; then
4. Set up a default collection of test schedules so all emergency DALI Devices are tested according to [AS2293](#)<sup>17</sup> .

**"Open an existing Test Plan" button**

Click this button to open an existing Test Plan. This button will display a dialogue allowing you to select a pre-existing Test Plan to open.

**"Run the default Test Plan" button**

if this button is enabled, then a Test Plan has already been set up and run on this PC. Click this button to open the Test Plan in Run Mode to begin monitoring the emergency DALI Devices.

**"Import License" button**

Click this button to import a *Diginet License \*.lic file* that is associated with a USB dongle. See topic [Set Up Licensing](#)<sup>13</sup> below for more information.

**"Check for License" button**

Click this button to manually check for any newly-imported licenses. Normally this button will not need to be used.

**"Exit" button**

Click this button to exit RAPIX Emergency.

## 2.4 Set Up Licensing

RAPIX Emergency is a licensed software product and for it to run, requires:

- A USB dongle.
- A license file (\*.lic).

RAPIX Emergency requires that the dongle is inserted into the PC, and a license file has been imported. A license file is designed to activate a specific USB dongle, and the dongle is identified by a built-in unique identification number which is printed on it. If either the dongle is missing or the license file is missing, then RAPIX Emergency will stop running until both the dongle and license file are found.

The first time RAPIX Emergency runs, it will prompt for a license dongle to be inserted (see bottom-left of the dialogue):



1. Insert the USB license dongle into the PC.

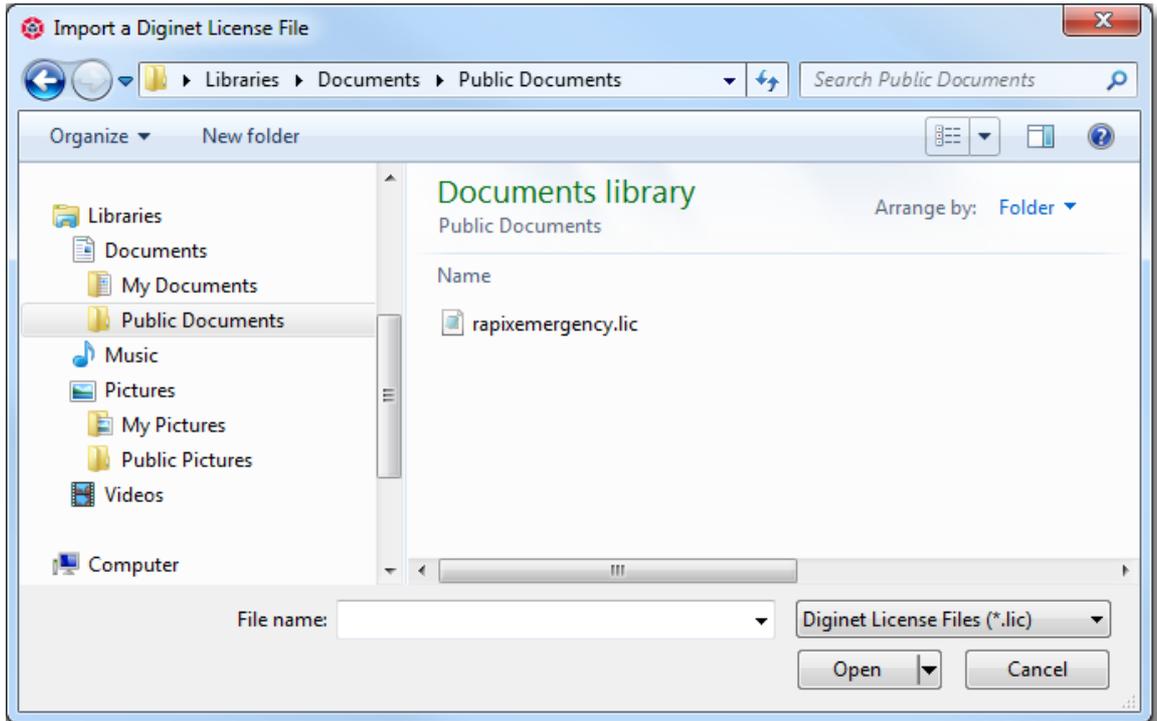
**Note:** The first time a dongle is inserted, Windows will install and configure the dongle drivers. This may take a few moments. When complete, you may be required to remove and re-insert the license dongle.

2. The flashing red message at the bottom-left of the dialogue should prompt for a license file to be imported, specifying the ID of the dongle just inserted.

**Please import license file to activate dongle rlmid1=**

The 'import license' message in the bottom-left of the dialogue (the inserted dongle's ID will be displayed here)

Click **Import License** to show the **Import a Dignet License File** dialogue.



3. Locate and select the *Diginet License File (\*.lic)* and click **Open**.  
The text message displayed above the **Import License** button should now display the number of DALI Devices permitted to be run in a Test Plans.



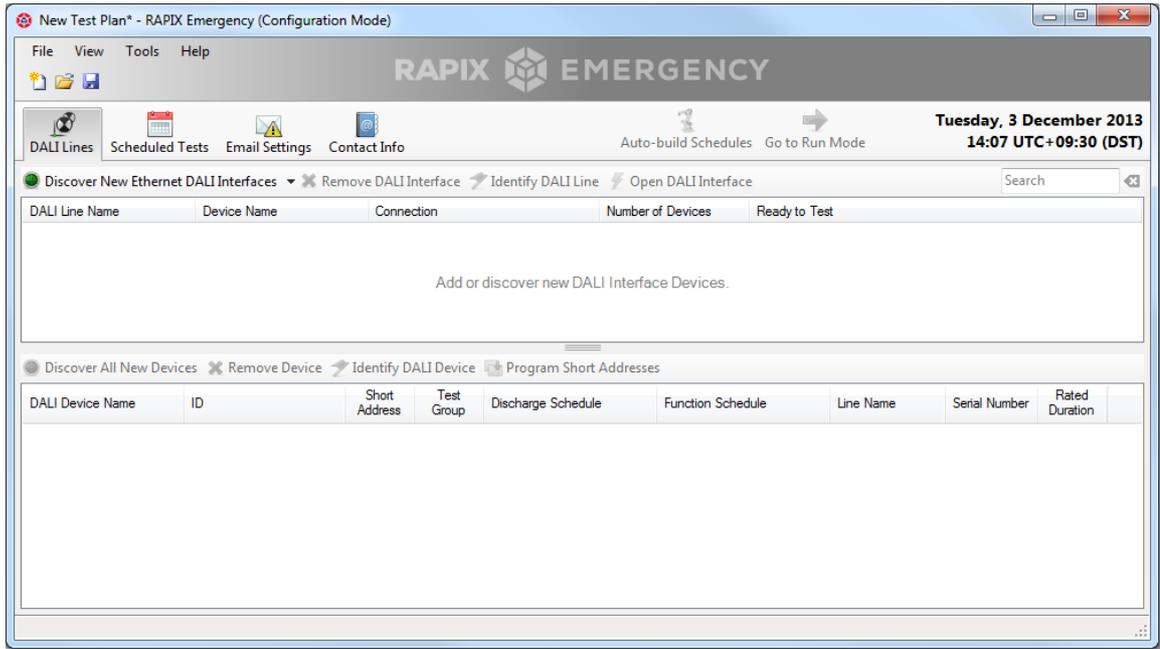
Example of a license that permits 100 DALI Devices

4. The Welcome Screen should then become enabled and allow the creation, opening, and running of Test Plans.

## 3 Commissioning a Site

### 3.1 User Interface (Configuration Mode)

When in Configuration Mode, the user interface consists of a single window where a Test Plan can be configured.



A new Test Plan in the Configuration Mode user interface

## Menu Bar

The menu bar provides functions to manage Test Plans, navigate the user interface, and manage site passwords.



The Configuration Mode menu bar

## File Menu

The File menu provides Test Plan management functionality, explained below.

### "New" menu-item

Click this to create a new Test Plan. If one is already open, it will first be closed. If there are any unsaved changes, they can be saved or discarded.

### "Open" menu-item

Click to open an existing Test Plan. If one is already open, it will first be closed. If there are any unsaved changes, they can be saved or discarded.

This menu-item will open RAPIX Emergency's **Load a Test Plan** dialogue, where a Test Plan can be chosen and opened.

### "Close" menu-item

Click to close the currently-open Test Plan. Any unsaved changes can be saved or discarded. Once the Test Plan is closed, RAPIX Emergency will return to the Welcome screen.

### "Save" menu-item

Click to save the currently-open Test Plan. If there are no unsaved changes, then this menu-item will be disabled.

### "Import..." menu-item

Click to import a *Diginet Archive* (\*.dtz) file into RAPIX Emergency. See the [Glossary of Terms](#)<sup>17</sup> for a description of a Diginet Archive file.

**"Export..." menu-item**

Click to export any Test Plan into a *Dignet Archive* (\*.dtz) file. See the [Glossary of Terms](#)<sup>[7]</sup> for a description of a Dignet Archive file.

**"Exit" menu-item**

Click to exit RAPIX Emergency. Any unsaved changes can be saved or discarded.

**View Menu**

The View menu allows for navigation between the 4 tabs mentioned below. Click any menu-item to show that tab.

The menu-item representing the currently-visible tab will be displayed with a tick next to it.

**Tools Menu**

The Tools menu provides extra DALI Line and Test Plan functionality, as well as site password management.

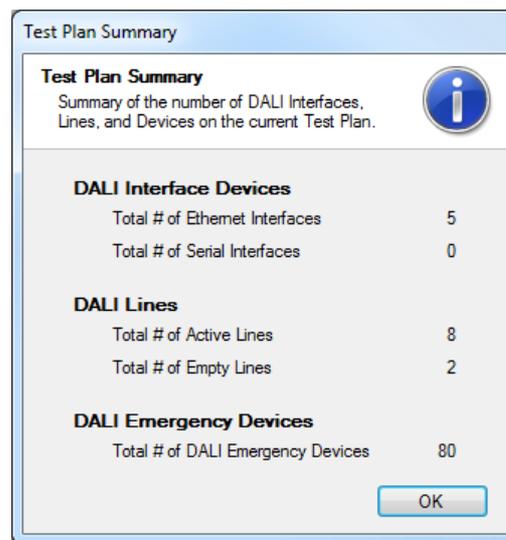
**"DALI Address Grid..." menu-item**

Click this item to open the *DALI Short Addresses* dialogue, which can show all of the DALI short addresses on a DALI Line, and what type of DALI Devices occupy the short addresses. See topic [DALI Address Status Grid](#)<sup>[28]</sup> for more information.

**"Test Plan Summary..." menu-item**

Click this item to open the *Test Plan Summary* dialogue.

This dialogue shows basic statistics of the Test Plan, including the number of DALI Interface Devices, the number of DALI Lines, and the number of Emergency DALI Devices in the Test Plan.



The Test Plan Summary dialogue

**"Change Supervisor Password..." menu-item**

Click this item to show the *Change Supervisor Password* dialogue. See topic [Password Management](#)<sup>[42]</sup> for more information.

**"Change Maintenance Password..." menu item**

Click this item to show the *Change Maintenance Password* dialogue. See topic [Password Management](#)<sup>42</sup> for more information.

---

## Help Menu

The Help menu provides access to the RAPIX Emergency help files and About dialogue, as well as the ability to import new license files.

### "Import License" menu-item

Click this item to open the *Import a Diginet License File* dialogue, which allows the importing of a *Diginet License (\*.lic)* file.

### "Help Contents..." menu-item

Click this item to open the help file for RAPIX Emergency.

### "About RAPIX Emergency..." menu-item

Click this item to open the About dialogue box for RAPIX Emergency.

---

## Quick Access Buttons

The menu bar also provides quick access buttons for:

- Creating a new Test Plan.
- Opening a Test Plan.
- Saving the currently-open Test Plan if there are changes to be saved.

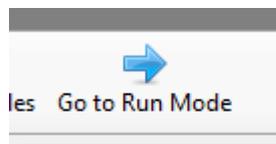


The quick access buttons in Configuration Mode

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## Going to Run Mode

The tab bar in Configuration Mode provides a button called **Go to Run Mode**, which, when the Test Plan is ready to be run, can be clicked to run the Test Plan. See topic [Monitoring a Site User Interface](#)<sup>44</sup> for more information.



The Go to Run Mode button

If there are any unsaved changes to the Test Plan, they must be saved before entering Run Mode.

---

## Date and Time Display

When RAPIX Emergency is in Configuration Mode, the current date and time is always displayed.

The time zone offset, and whether daylight savings is currently active, is also displayed.

This date and time display can be useful when planning scheduled tests for a Test Plan.

## Configuration Mode Tabs

---

This window consists of four main tabs that allow the configuration of each part of a Test Plan.



Configuration Mode tabs

The tabs are explained below.

### ***DALI Lines tab***

---

This tab is used to view, identify, and name DALI Interface Devices and DALI Devices. DALI Devices can also be assigned to different test groups for automatic test scheduling.

See topic [DALI Lines Tab](#)<sup>19</sup> for more information about this tab.

### ***Scheduled Tests tab***

---

This tab is used to view and edit scheduled tests, and to see when particular DALI Devices are to be tested.

See topic [Scheduled Tests Tab](#)<sup>24</sup> for more information about this tab.

### ***Email Settings tab***

---

This tab is used to set up automatic email alerts so people can be notified of imminent and completed tests.

See topic [Email Settings Tab](#)<sup>26</sup> for more information about this tab,

### ***Contact Info tab***

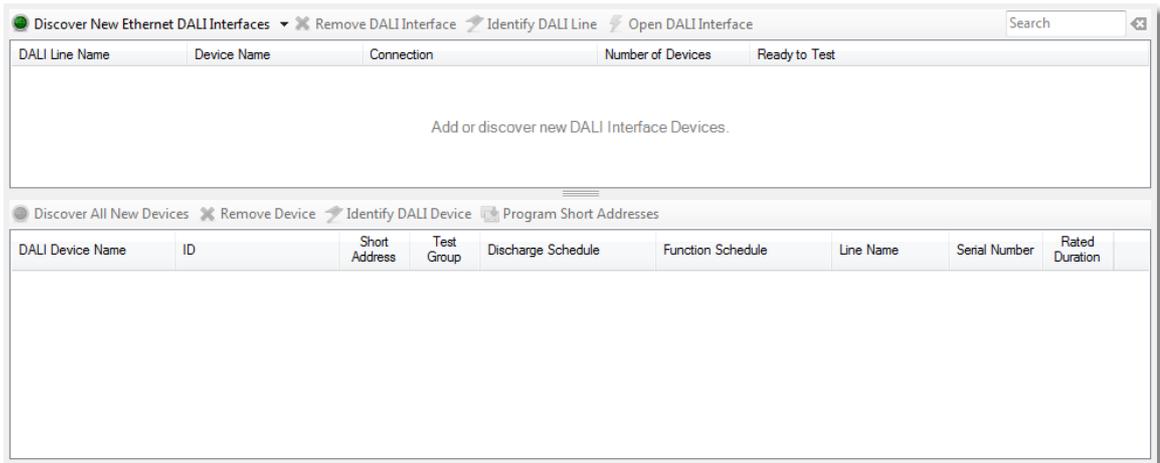
---

This tab is used to enter in the contact details of people who may be required to be contacted in case of problems with the site.

See topic [Contact Info Tab](#)<sup>28</sup> for more information about this tab.

## **3.1.1 DALI Lines Tab**

This tab is used to view, identify, and name DALI Interface Devices and DALI Devices.



The DALI Lines tab

### DALI Lines list

The top-most list displays all of the DALI Lines in the Test Plan.

Each row represents a DALI Line, and displays the following attributes for each DALI Line.

- The name of the DALI Line.
- The name of the DALI Interface Device that the DALI Line is connected to.
- The type of connection made to the DALI Line; whether it is Ethernet-based or Serial-based.
- The number of DALI Devices on the DALI Line.
- Whether or not the DALI Line is ready to be tested.  
 RAPIX Emergency will examine the DALI Line to determine whether all DALI Devices on it are assigned to test groups that are scheduled to run periodic discharge tests.

### DALI Line Buttons

There are buttons that allow the configuration of DALI Lines.



Toolbar for the DALI Lines list

#### "Discover New Ethernet DALI Interfaces" button

Click this button to find any DALI Interface Devices on the network, which can then be added to the Test Plan.

See topic [Discover DALI Interface Devices](#)<sup>34</sup> for more information.

#### "Add New Serial DALI Interface..." button

Click this button, accessible via the small drop-down button next to the Discover button, to add a new Serial-based DALI Interface Device to the Test Plan.

#### "Add New Ethernet DALI Interface..." button

Click this button, accessible via the small drop-down button next to the Discover button, to add a new Ethernet-based DALI Interface Device to the Test Plan, by manually entering its IP address.

#### "Remove DALI Interface" button

Click this button when there are DALI Lines selected in the list, to remove them from the Test Plan.

#### "Identify DALI Line" button

Click this button when there are DALI Lines selected in the list, to commence identification of the

DALI Interface Devices and DALI Devices on those DALI Lines. This button will remain checked until clicked again.

#### "Open DALI Interface" button

Click this button when there is a DALI Line selected that is currently not connected to DALI, to attempt a reconnection to DALI.

### **Discovering DALI Lines**

---

To discover new DALI Lines and add them to the Test Plan, simply click the **Discover New Ethernet DALI Interfaces** button. This will display a dialogue that will automatically search the network for any DALI Interface Devices that are not currently in the Test Plan.

See topic [Discover DALI Interface Devices](#)<sup>34</sup> for more information.

### **Editing DALI Lines**

---

The properties of DALI Lines can be edited directly from within the list.

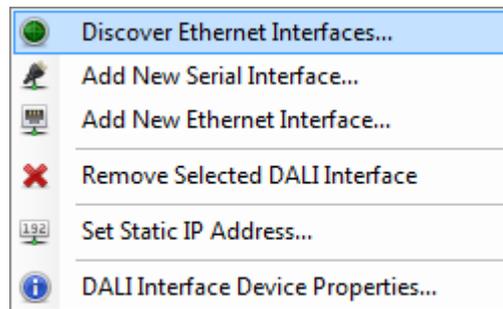
The *DALI Line Name* field can be edited by double-clicking the cell to be edited, and all other fields by single-clicking the cell to be edited.

**Note:** Any cells where the text is grey indicates a read-only property.

### **Right-click Menus**

---

Right-click in the DALI Lines list to access the same functionality as in the toolbar, as well as extra options.



Right-click menu in the DALI Lines list

#### "Set Static IP Address..." item

Click this item to change the IP address of an Ethernet-based DALI Interface Device. See topic [Setting Static IP Addresses](#)<sup>35</sup> for more information.

#### "DALI Interface Device Properties..." item

Click this item to get detailed information about the DALI Interface Device.

### **DALI Devices list**

---

The bottom-most list displays all of the DALI Devices for the selected DALI Line.

Each row represents a DALI Device, and displays the following attributes for each DALI Device:

- The name of the DALI Device.
- The ID of the DALI Device, which is a text-based property describing it.
- The DALI short address of the DALI Device.
- The test group assigned to the DALI Device.
- The discharge and function schedules assigned to the DALI Device.
- The name of the DALI Line that the DALI Device is on.
- The DALI Device serial number.
- The rated duration, in minutes, that the DALI Device is expected to run for on battery power.

### ***DALI Devices Buttons***

---

There are buttons that allow the configuration of DALI Devices.



Toolbar for the DALI Devices list

#### **"Discover New Devices" button**

Click this button to invoke the DALI Device discover dialogue which will find any DALI Devices that are on the currently-selected DALI Line.

See topic [Discovering DALI Devices](#)<sup>36</sup> for more information.

#### **"Discover New Devices on All DALI Lines" button**

Click this button to invoke the DALI Device discover dialogue which will find any DALI Devices that are on any of DALI Lines in the current Test Plan.

#### **"Remove Device" button**

Click this button when there are DALI Devices selected in the list, to remove them from the Test Plan.

#### **"Identify DALI Device" button**

Click this button when there are DALI Devices selected in the list, to commence identification of the DALI Devices. This button will remain checked until clicked again.

#### **"Program Short Addresses" button**

Click this button to reprogram the DALI short addresses of DALI Devices on the currently-selected DALI Line.

See topic [Programming Short Addresses](#)<sup>37</sup> for more information.

### ***Discovering DALI Devices***

---

To discover new DALI Devices and add them to the Test Plan, click the **Discover New Devices** button. This will show a dialogue that will automatically search the DALI Line for any DALI Devices that are not currently in the Test Plan.

See topic [Discovering DALI Devices](#)<sup>36</sup> for more information.

### ***Editing DALI Devices***

---

The properties of DALI Devices can be edited directly from within the list.

The *DALI Device Name* field can be edited by double-clicking the cell to be edited, and all other fields by single-clicking the cell to be edited.

**Note:** Any cells where the text is grey indicates a read-only property.

### **Configuring Test Groups**

---

A test group is a collection of DALI Devices that are to be discharge tested and/or function tested at the same time.

Every DALI Line allows up to 8 configurable test groups, as well as a discharge and function schedule.

The test group for a DALI Device can be configured in two ways, by:

1. Editing the value in the Test Group column, either by typing in a new value (between 1 and 8), or clicking the small up and down arrows in the cell).
2. Dragging the DALI Device up or down from one test group, and dropping it onto another. When dragging, a tool-tip under the mouse cursor will indicate what will happen to the test group of the DALI Device being dragged, if dropped there.

### **Assigning Discharge and Function Schedules**

---

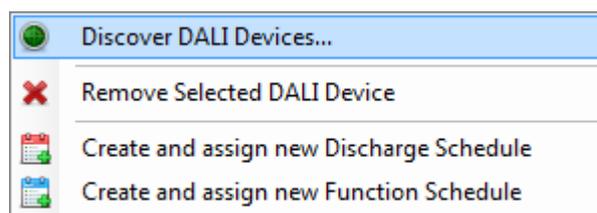
Assigning a Discharge Schedule or Function Schedule to a test group is done by assigning it to a DALI Device in a test group. This is done by clicking in the Discharge Schedule or Function Schedule cell, revealing the drop-down box, and selecting a schedule from the list.

All other DALI Devices in the same test group on the same DALI Line will automatically have that new schedule assigned.

### **Right-click Menus**

---

Right-click in the DALI Devices list to access the same functions as in the toolbar, as well as extra options.



**Right-click menu in the DALI Devices list**

#### **"Create and assign new Discharge Schedule" item**

Click this item when a DALI Device is selected to create a new discharge schedule, and automatically assign it to this DALI Device and other DALI Devices on this DALI Line in the same test group.

#### **"Create and assign new Function Schedule" item**

Click this item when a DALI Device is selected to create a new function schedule, and automatically assign it to this DALI Device and other DALI Devices on this DALI Line in the same test group.

### **Searching for DALI Lines or DALI Devices**

---

In the top-right corner of the tab is a search box, which can be used to search for DALI Lines and DALI Devices.



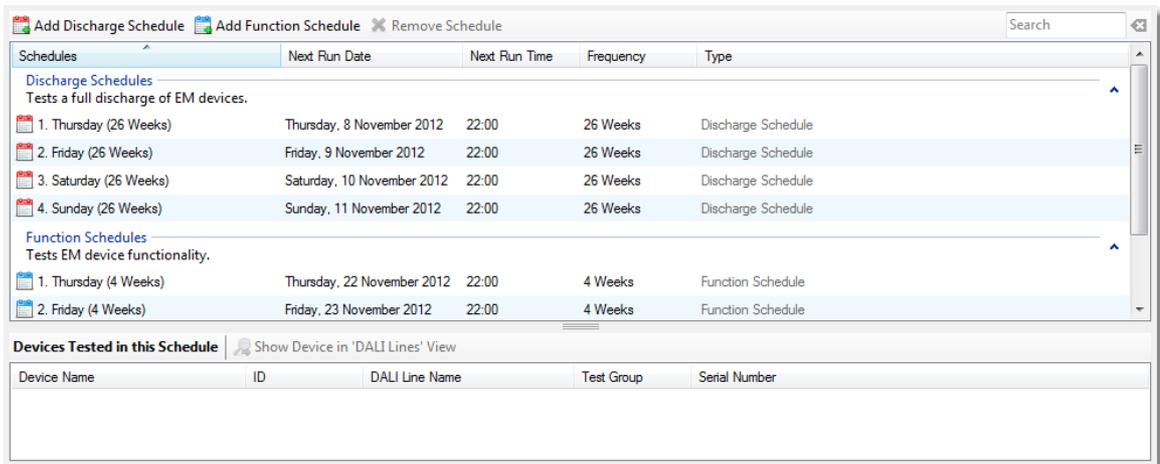
The search box

Search matches are highlighted in yellow in the lists.

*Note: If the search text that has been entered yields no results, the colour of the search box turns red.*

### 3.1.2 Scheduled Tests Tab (Configuration Mode)

This tab is used to view and configure scheduled tests in a Test Plan.



The Scheduled Tests tab

### Schedules list

The top-most list displays all of the schedules in the Test Plan.

Each row represents a schedule, and displays the following attributes for each schedule:

- The name of the schedule.
- The date and time the schedule is to be run next.
- How often the schedule will be run.
- What type of schedule it is.

### Schedule Buttons

There are buttons that allow the configuration of schedules.



Toolbar for the Schedules list

#### "Add Discharge Schedule" button

Click this button to add a new Discharge Schedule to the Test Plan. This will add a new row to the list, and immediately allow the entering of a name for the schedule.

**"Add Function Schedule" button**

Click this button to add a new Function Schedule to the Test Plan. This will add a new row to the list, and immediately allow the entering of a name for the schedule.

**"Remove Schedule" button**

Click this button when there are schedules selected in the list, to remove them from the Test Plan. Any DALI Devices that were assigned to be tested by this schedule will now have no schedule assigned.

***Editing Schedules***

The properties of schedules can be edited directly from within the list.

The *Schedule Name* field can be edited by double-clicking the cell to be edited, and all other fields by single-clicking the cell to be edited.

**Note:** Any cells where the text is grey indicates a read-only property.

***Right-click Menus***

Right-click in the schedules list to access the same functionality as in the toolbar.

**Devices Tested in this Schedule list**

The bottom-most list displays all of the DALI Devices that are tested by the currently-selected schedule.

**Note:** DALI Devices will be shown only if one schedule is selected at a time.

Each row represents a DALI Device, and displays the following properties for each DALI Device:

- The name of the DALI Device.
- The ID of the DALI Device, which is a text-based property describing it.
- The name of the DALI Line that the DALI Device is on.
- The test group that the DALI Device is a member of.
- The DALI Device serial number.

***Devices Tested in this Schedule Buttons***

Toolbar for the Devices Tested in this Schedule list

**"Show Device in 'DALI Lines' View" button**

Click this button to show the selected DALI Device in the DALI Lines tab. This will select the DALI Line that the selected DALI Device is on, and then select the DALI Device itself.

***Right-click Menus***

Right-click in the Devices Tested in this Schedule list to access the same functionality as in the toolbar.

## Searching for Schedules or DALI Devices

In the top-right corner of the tab is a search box, which can be used to search for schedules and the DALI Devices tested by them.



The search box

Search matches are highlighted in yellow in the lists.

**Note:** If the search text that has been entered yields no results, the colour of the search box turns red.

### 3.1.3 Email Settings Tab

This tab is used to view and configure email sending notifications for a Test Plan.

If email sending options are correctly set up, and there is at least one recipient, then when a Discharge Schedule or Function Schedule is completed, RAPIX Emergency will automatically send out an email with the results of that test.

**Important:** Contact your IT support personnel for assistance with these settings.

The Email Settings tab

## Email Sending Details

RAPIX Emergency attempts to auto-populates the following fields when this tab is first opened, based on any settings found on the network that the computer is connected to at the time.

### Sender Email Address

This is the email address that will appear as the sender of any emails sent by RAPIX Emergency.

### Server Information

#### Relay Host

This is the name of the machine that may be required to pass emails outside of the network.

#### Port Number

This is the port that the relay host is to be communicated with.

## Logon Information

Authentication may be required to send emails. If this is the case, then the **Username** and **Password** fields must be filled in.

## Email Recipients

Multiple recipients of RAPIX Emergency emails can be configured in a Test Plan.

To add a new recipient, click the **Add Recipient** toolbar button above the recipients list. A new row will be added, which immediately allows the entering of a recipient's name. To edit the email address, simply click on the cell, type in a new email address, and hit Enter or click elsewhere.

Once an email address has been typed in, the right-most column will indicate whether the email address is a properly-formed email address, assisting in the avoidance of some typographical errors.

Recipient Name	Recipient Email Address	Valid
<input checked="" type="checkbox"/> Joe Bloggs	not an email address	<span style="color: red;">●</span> Badly Formatted Email Address
<input checked="" type="checkbox"/> New Email Recipient	<Enter Email Address>	<span style="color: yellow;">●</span> Enter an email address for this recipient

The email recipients list with invalid email addresses

To remove an existing recipient, select a recipient in the list, and click the **Remove Recipient** button.

## Notification Options

### Send email 1 week prior to Discharge Tests being run

Select this option to have RAPIX Emergency send out an email exactly one week prior to a Discharge Schedule being run. This option is useful to warn facility managers of any scheduled tests that are to be run.

### Send email 1 day prior to Discharge Tests being run

Select this option to have RAPIX Emergency send out an email exactly 24 hours prior to a Discharge Schedule being run. This options is useful to warn facility managers of any scheduled tests that are to be run.

### Send email weekly if there are failed Emergency DALI Devices

Select this option to have RAPIX Emergency send out a weekly reminder email, reminding the facility manager that there are Emergency DALI Devices in the Test Plan that have failed a test.

## Test These Settings

The **Send Test Email...** button allows for the testing of email settings. When clicking this button, RAPIX Emergency will send out a test email to all of the recipients in the recipients list.

Use this button to quickly test whether the email settings that have been configured will function correctly when RAPIX Emergency is running.

### 3.1.4 Contact Info Tab (Configuration Mode)

This tab is used to view and configure details of contacts who can be contacted in case of a problem with the Test Plan.

The Contact Info tab

#### **Add a Contact**

To add a new contact, simply click the **Add Contact** button. A new row will appear in the list, and the **Contact Name** field on the right will be automatically selected, allowing for the immediate entering of the contact's details.

#### **Edit a Contact**

To edit a contact, simply click on the name of the contact in the list, and the contact's details will appear in the fields on the right.

Type in the contact's new details as desired.

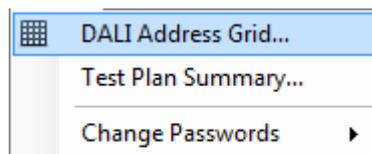
#### **Remove a Contact**

To remove a contact, simply select a contact in the list, and click the **Remove Contact** button.

### 3.1.5 DALI Address Status Grid

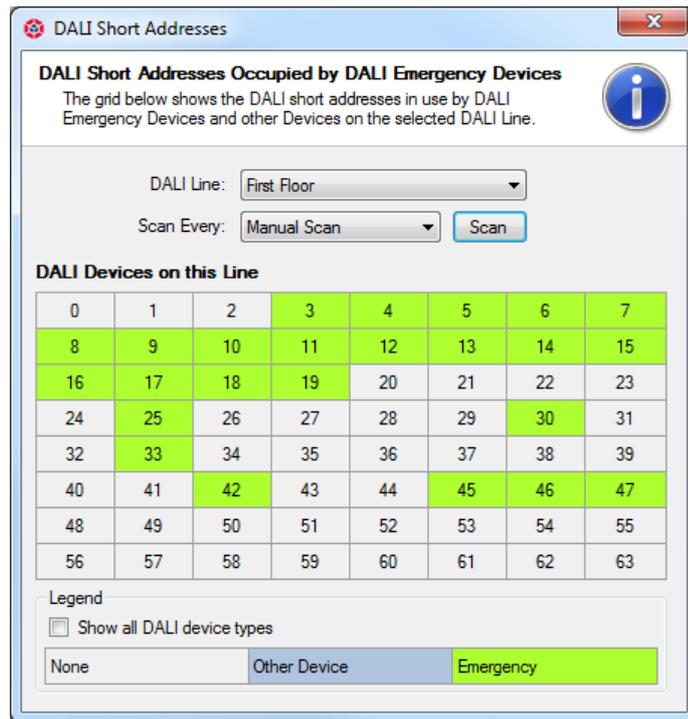
The **DALI Short Addresses** dialogue scans a DALI Line and displays all of the DALI short addresses, and what type of DALI Device occupies them.

To open the **DALI Short Address** dialogue, click the **DALI Address Grid...** item in the **Tools** menu.



The DALI Address Grid... item in the Tools menu

Different DALI device types are displayed in different colours for easy viewing.



The DALI Short Addresses dialogue showing a DALI Line with 24 DALI Devices

By default, RAPIX Emergency will display emergency DALI Devices in green and non-emergency in blue.

### ***Choosing a DALI Line to scan***

The **DALI Line** drop-down list allows for the selection of any DALI Line in the Test Plan for scanning. To scan a different DALI Line, simply choose the DALI Line from the list, and click the **Scan** button.

### ***Choosing a scan interval***

The **Scan Every** drop-down allows for the selection of a scan interval for repeating scans. The options available are:

- **Manual Scan.**  
A scan of the DALI Line will only occur when the **Scan** button is clicked.
- **10 seconds.**  
A scan will repeat every 10 seconds.
- **20 seconds.**  
A scan will repeat every 20 seconds.
- **1 minute.**  
A scan will repeat every minute.

### ***Showing all DALI device types***

To see all of the different DALI device types, simply click the **Show all DALI device types** checkbox, and all non-emergency DALI Devices will change colour to reflect the type of DALI Device it is.

The different colours are as seen below:

Legend		
<input checked="" type="checkbox"/> Show all DALI device types		
None	Fluorescent	Emergency
Discharge Lamp	Low Voltage Halogen	Incandescent Volt. Cont.
Digital to DC Conversion	LED Module	Switching Function
Colour Control	Sequencer	Optical Control
Not Yet Defined	Multiple	

DALI device type colours

### 3.2 Basic Working Procedures

This section describes the most common and important basic tasks that will be used when setting up a Test Plan in RAPIX Emergency.

It is designed as a "How To" guide and reference manual.

#### 3.2.1 Configuring DALI Interfaces

There are two possible methods of setting up DALI Interface Devices using RAPIX Emergency.

They are:

1. Assigning of IP addresses and saving of names to DALI Interface Devices before they are installed on site.
2. Installing of DALI Interface Devices on site once the site's local area network is set up and operational, then connecting to the DALI Interface Devices one at a time and assigning IP addresses and saving names.

Both of these options require a Test Plan to be created before connecting to DALI Interface Devices.

See topic [Discover DALI Interface Devices](#)<sup>34</sup> for more information on discovering DALI Interface Devices.

#### Option 1: Setting Up of DALI Interface Device before Installation

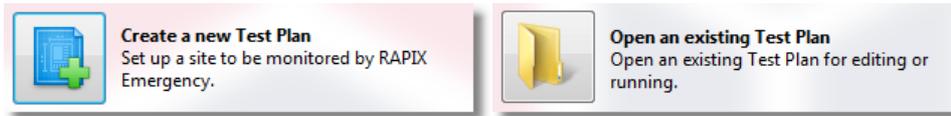
To set up a DALI Interface Device with this option, follow the steps below.

1. Disconnect the PC from any local area network.
2. Change the network settings of the PC to use a static IP address that is in the same subnet that is intended for the DALI Interface Devices.  
For example, if a DALI Interface Device is to have the IP address **172.20.22.10**, then set the IP address of the PC to be **172.20.22.1**.

**Note:** An explanation of IP subnets is outside the scope of this document. For an explanation of this, consult an online resource, or contact your IT support personnel for assistance.

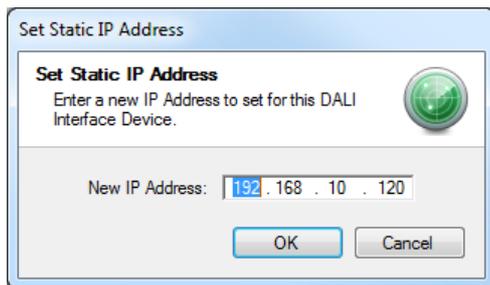
3. Connect a DALI Interface Device to the Ethernet port on the PC, and ensure that it is powered.

- Open RAPIX Emergency and on the welcome screen, either click **Create a new Test Plan** or **Open an exiting Test Plan**.



The Create and Open Test Plan buttons

- Once a new Test Plan has been created, click the **Discover New Ethernet DALI Interfaces** button on the **DALI Lines** tab.  
See topic [Discover DALI Interface Devices](#)<sup>34</sup> for more information.
- The discovery dialogue will appear, and attempt to automatically discover any DALI Interface Devices connected to the PC.  
The DALI Interface Device currently connected to the PC should appear in the list. It will probably be marked as **Unreachable**. This is expected.  
If it does not appear, press **F5** or click the **Rescan (F5)** button to attempt another scan.
- Right-click the newly-discovered DALI Interface Device in the list, and select the **Set Static IP Address...** option.
- Enter in the desired IP address for the DALI Interface Device and click **OK**.



The Set Static IP Address dialogue

- Once the IP address has been changed, the discovery dialogue will rescan the network, and the DALI Interface Device should now appear with the new IP address.
- Make sure that the DALI Interface Device is ticked and click **Add** to add it to the Test Plan.
- Once the DALI Interface Device has been added to the Test Plan, in the DALI Lines list, enter in the desired name for each of the DALI Interface Device's DALI Lines, and for the DALI Interface Device itself.

DALI Line Name	Device Name	Connection	Number of Devices	Ready to Test
Line Name				
Not Set	Not Set	192.168.10.120 / 1	38	⚠ Untested Devices
Not Set	Not Set	192.168.10.120 / 2	8	⚠ Untested Devices
Not Set	Not Set	192.168.10.121 / 1	1	⚠ Untested Devices
Not Set	Not Set	192.168.10.121 / 2	0	✅ No Devices to Test

Entering in a DALI Line name (double-click the DALI Line names to start editing them)

Repeat this process for each DALI Interface Device that requires setting up.

### ***Saving the Changes***

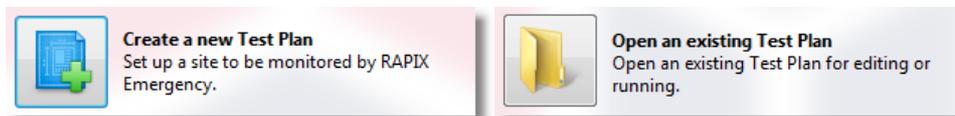
To save the changes to the physical DALI Interface Devices, simply press **Ctrl+S** or select **File** and then **Save**. The changes will be saved to the physical DALI Interface Device at the same time as the Test Plan is saved to disk.

## Option 2: Installation of DALI Interface Device before Setting Up

---

To set up a DALI Interface Device with this option, follow the steps below.

1. Install the DALI Interface Device into its intended enclosure, ensuring that it is correctly powered and connected to DALI and the local area network.
2. Connect the PC running RAPIX Emergency to the same local area network that the DALI Interface Devices are connected to.
3. Open RAPIX Emergency and on the welcome screen, either click **Create a new Test Plan** or **Open an exiting Test Plan**.



The Create and Open Test Plan buttons

4. Once a new Test Plan has been created, click the **Discover New Ethernet DALI Interfaces** button on the **DALI Lines** tab.  
See topic [Discover DALI Interface Devices](#)<sup>34</sup> for more information.
5. The discover dialogue will appear, and attempt to automatically discover any DALI Interface Devices connected to the local area network.  
The DALI Interface Devices may all appear as **Unreachable**, and this is to be expected.
6. Click **Add** to add the desired DALI Interface Devices to the Test Plan.  
RAPIX Emergency will now attempt to discover any DALI Devices connected to the DALI Interface Devices.
7. Once the DALI Interface Devices have been added to the Test Plan, in the DALI Lines list, they will need to be identified before assigning an IP address and naming.

## Identification of a DALI Interface Device

---

Now, each of the DALI Interface Devices in the Test Plan must be identified and named.

Firstly, click on the **Connection** column header to sort all of the DALI Interface Devices. Each individual DALI Interface Device will be displayed in a group, with the DALI Lines they are connected to grouped together.

Connection	Num
● 192.168.10.120 / 1	38
● 192.168.10.120 / 2	8
● 192.168.10.121 / 1	1
● 192.168.10.121 / 2	0

Sorting DALI Interface Devices by the Connection column

Next, select all of the DALI Lines for a DALI Interface Device, and click the **Identify DALI Line** button to start identifying that DALI Interface Device.

**Note:** To select all of the DALI Lines of a DALI Interface Device, click each of the DALI Lines while holding the Control or Shift key.

DALI Line Name	Device Name	Connection	Number of Devices	Ready to Test
192.168.10.120				
Not Set	Not Set	● 192.168.10.120 / 1	38	⚠ Untested Devices
Not Set	Not Set	● 192.168.10.120 / 2	8	⚠ Untested Devices
192.168.10.121				
Not Set	Not Set	● 192.168.10.121 / 1	1	⚠ Untested Devices
Not Set	Not Set	● 192.168.10.121 / 2	0	✔ No Devices to Test

Identifying both DALI Lines of a DALI Interface Device

Two things will happen:

1. The green DALI Line indicators on the DALI Interface Device will flash rapidly, revealing which DALI Interface Device is currently highlighted in RAPIX Emergency.
2. All of the DALI Devices that are connected to the highlighted DALI Lines will perform their identification routines, which can be seen by walking around the site and observing the DALI Devices.

**Note:** The identification routines performed by the highlighted DALI Devices will vary according to the device's manufacturer and model..

This process will provide enough information to decide on a suitable name for both the DALI Interface Device and the DALI Lines it is connected to.

**Note:** Individual DALI Lines can be identified by only having a single DALI Line selected in the list and clicking the **Identify DALI Line** button. This can assist in narrowing down which DALI Devices are connected to individual DALI Lines rather than entire DALI Interface Devices.

Now that the DALI Interface Device and its DALI Lines have been identified, enter in a name for the DALI Interface Device and each of the DALI Lines it is connected to.

Repeat this process for each DALI Line on all of the DALI Interface Devices.

### Saving the Changes

To save the changes to the physical DALI Interface Devices, simply press **Ctrl+S** or select **File** and then **Save**. The changes will be saved to the physical DALI Interface Device at the same time as the Test Plan is saved to disk.

## Next Steps

The next step in setting up a Test Plan is to identify and give meaningful names to emergency DALI Devices.

### 3.2.2 Discover DALI Interface Devices

To discover new DALI Lines and add them to the Test Plan, go to the **DALI Lines** tab and click the **Discover New Ethernet DALI Interfaces** button. This will display a dialogue that will automatically search the network for any DALI Interface Devices that are not currently in the Test Plan.



Discovering DALI Interface Devices on the network

Once the discovery is complete, a list of DALI Interface Devices will be displayed, showing:

- The DALI Interface Device's IP address.
- The number of DALI Lines associated with the DALI Interface Device.
- The status if the DALI Interface Device, which indicates whether the DALI Interface Device is:
  - **OK.**  
This means that the DALI Interface Device can be added to the Test Plan.
  - **Currently In Use.**  
This means that the DALI Interface Device is currently in use by another Test Plan.
  - **Unreachable.**  
This means that the DALI Interface Device is not accessible using TCP/IP, and must be assigned another IP address before it can be added.
  - **Dynamic IP Address.**  
This means that the DALI Interface Device has been allocated an IP address from the local area network. This is the default setting for a DALI Interface Device from the factory. To be able to add this DALI Interface Device to the Test Plan, the its IP address must be set to a static IP address so that it will never change without the knowledge of RAPIX Emergency. See topic [Setting Static IP Addresses](#)<sup>35</sup> for more information.  
**Note:** If a DHCP license has been issued for RAPIX Emergency, then DALI Interface Devices with a dynamically-allocated IP address can be added to the Test Plan.

Once DALI Lines have been selected, clicking OK will start a discovery of DALI Devices on the selected DALI Lines. See topic [Discovering DALI Devices](#)<sup>36</sup> for more information.

### 3.2.3 Setting Static IP Addresses

The **Set Static IP Address** dialogue can be used to change the IP address of a DALI Interface Device when configuring a Test Plan.

If a DALI Interface Device, when discovered, is marked as unreachable, its IP address can be changed so RAPIX Emergency can communicate with it.

This dialogue can be displayed by:

- Right-clicking on a DALI Interface Device in the **Discover DALI Interface Devices** dialogue and clicking the **Set Static IP Address...** item.
- Right-clicking on a DALI Line already in a Test Plan, and clicking the **Set Static IP Address...** item.



The Set Static IP Address dialogue

To change the IP address of a DALI Interface Device, simply type in a new IP address, and click **OK** to perform the change.

**Note:** When entering an IP address, pressing the full stop, ('.') key will move the text selection to the next set of digits in the IP address.

Upon clicking **OK**, a progress bar will be shown, indicating that the change is occurring.

### 3.2.4 DALI Interface Device Properties

Detailed properties about DALI Interface Devices can be retrieved, which can be used for troubleshooting or documentation.

The properties of a DALI Interface Device can be retrieved and displayed in the **DALI Interface Device Properties** dialogue.

This dialogue can be displayed:

- When discovering DALI Interface Devices, by right-clicking on a DALI Interface Device and clicking the **DALI Interface Device Properties...** item.
- When in Configuration Mode, by right-clicking on a DALI Line in the DALI Lines list, and clicking the **DALI Interface Device Properties...** item.
- When in Run Mode, by right-clicking on a DALI Line in the DALI Lines list, and clicking the **DALI Interface Device Properties...** item.

When the dialogue is displayed, each DALI Line of the DALI Interface Device is shown as a separate tab, and the properties of each DALI Line are shown on each tab.

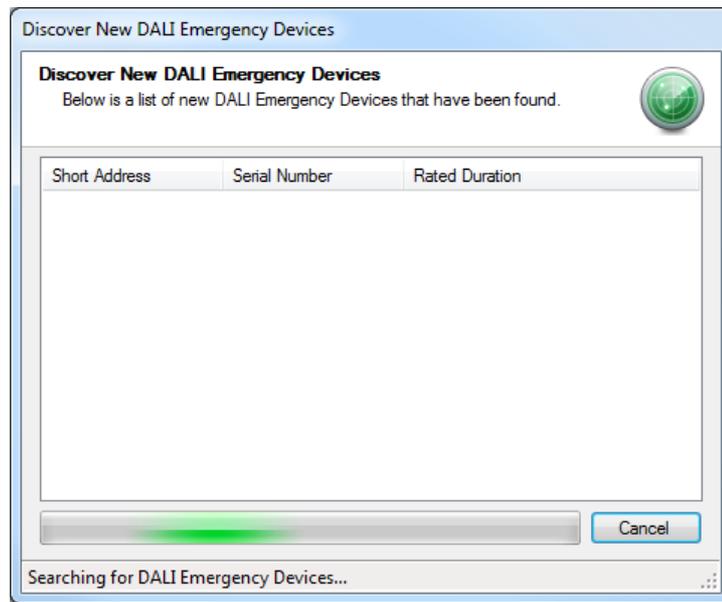
Click the **Close** button to close the dialogue.

### 3.2.5 Discovering DALI Devices

Discovering DALI Devices occurs when adding a new DALI Line to the Test Plan.

DALI Devices can also be discovered manually, by clicking the **Discover New Devices** button on the DALI Lines tab.

Doing so will show the following dialogue:



**Discovering DALI Devices on a DALI Line**

This dialogue will search for any DALI Devices that are not currently in the Test Plan. When searching completes, the dialogue will display all of the DALI Devices that it found, displaying their:

- DALI short address.
- Serial number.
- Rated duration.

Click **OK** to add these DALI Devices to the Test Plan, or click **Cancel** to not add them.

### 3.2.6 Identifying and Naming Devices

The process of identifying and naming emergency DALI Devices first involves locating the DALI Device on the site, and then giving that DALI Device an appropriate name in RAPIX Emergency.

#### *Identifying a DALI Device*

Identifying a DALI Device involves selecting the DALI Device in the DALI Devices list on the DALI Lines tab, and clicking the **Identify DALI Device** button to start identification mode.

DALI Line Name	Device Name	Connection	Number of Devices	Ready to Test
Line Name				
First Floor	ETH-120	192.168.10.120 / 1	24	⚠ Untested Devices

DALI Device Name	ID	Short Address	Test Group	Discharge Schedule	Function Schedule	Line Name	Serial Number	Rated Duration
Test Group 1 - no discharge schedule assigned								
New Device 3		3	1	<No Discharge Schedule>	<No Function Schedule>	First Floor	FF-FF-FF-FF	120 mins
New Device 11		11	1	<No Discharge Schedule>	<No Function Schedule>	First Floor	FF-FF-FF-FF	120 mins
New Device 19		19	1	<No Discharge Schedule>	<No Function Schedule>	First Floor	FF-FF-FF-FF	120 mins
Test Group 2 - no discharge schedule assigned								
New Device 4		4	2	<No Discharge Schedule>	<No Function Schedule>	First Floor	45-24-21-01	180 mins
New Device 12		12	2	<No Discharge Schedule>	<No Function Schedule>	First Floor	FF-FF-FF-FF	120 mins

Identifying a DALI Device at short address 3

When identification mode is on, the selected rows will pulsate between a dark and pale blue. This means that RAPIX Emergency will be sending out identification commands over DALI to the selected DALI Devices every 10 seconds, to ensure that they continue to perform their identification procedure.

**Note:** The identification routines performed by the highlighted DALI Devices will vary according to the device's manufacturer and model.

When the DALI Device has been located on the site, it needs to be given an appropriate name that describes what and where it is.

### Naming a DALI Device

To name a DALI Device, RAPIX Emergency can remain in identification mode.

To edit the name of the DALI Device, simply double-click the **DALI Device Name** column and type in a new name. Press **Enter** to accept the name change.

The **ID** column is intended to be used to describe the DALI Device in terms of where it is wired up.

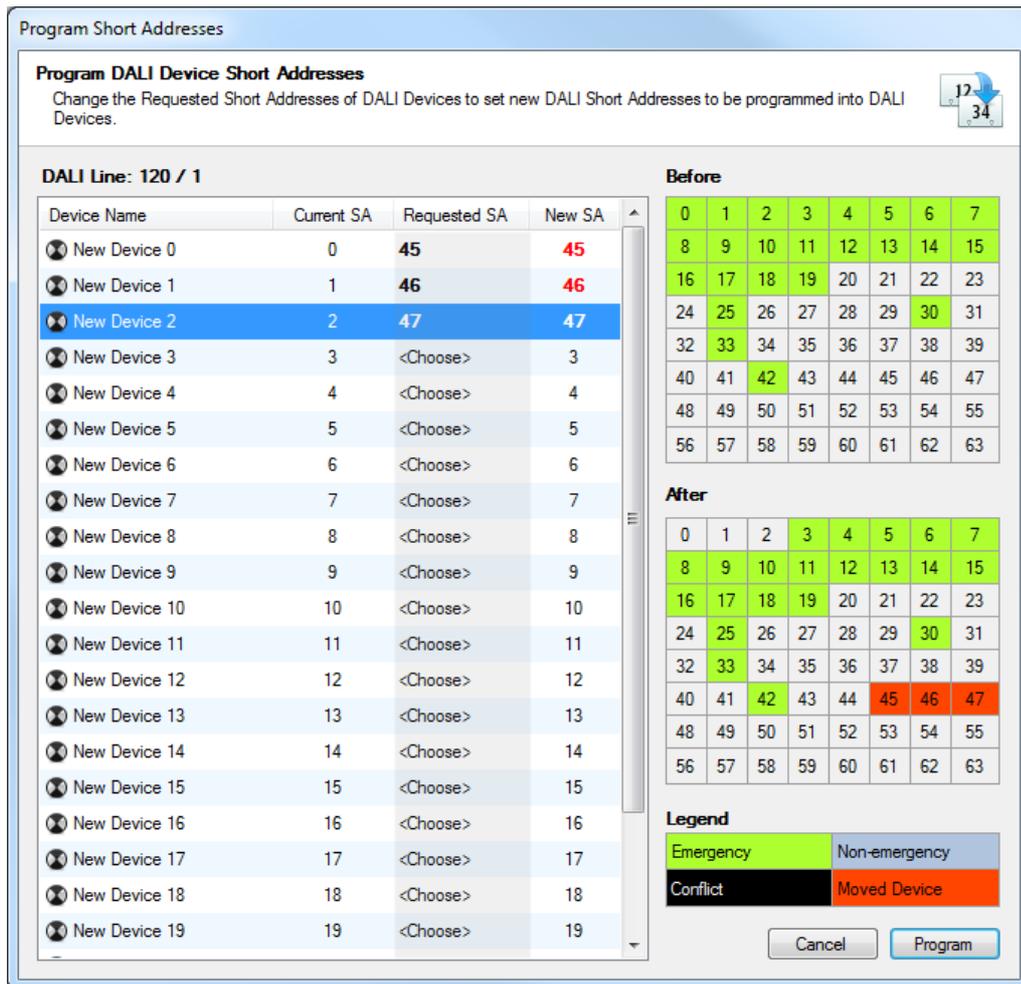
When the naming of DALI Devices is complete, simply press **Ctrl+S** or click **Save** in the **File** menu.

**Note:** The names of DALI Devices are not stored in the physical DALI Devices themselves. They are only stored in the RAPIX Emergency Test Plan.

### 3.2.7 Programming Short Addresses

The Program Short Addresses Remove dialogue allows the re-assignment of physical DALI short addresses in DALI Devices.

When the dialogue opens, the DALI Line is scanned, and the location of DALI Devices is shown in the **Before** grid on the top-right of the dialogue.



The Program Short Addresses dialogue with 3 pending changes

Emergency DALI Devices are shown as green, and non-emergency DALI Devices are shown in blue. If there are any conflicts when querying a short address, the short address cell will be displayed in black.

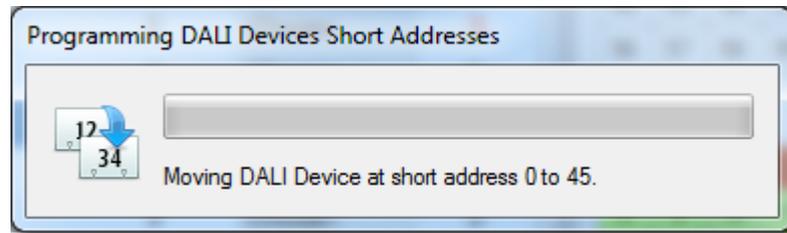
A conflict is where more than one DALI Device has the same short address.

The list displays all DALI Devices on the DALI Line, displaying:

- The name of the DALI Device.
- The current DALI short address of the DALI Device.
- The user-requested short address of the DALI Device.  
To edit the short address of a DALI Device, simply click a cell in the **Requested SA** to reveal a drop-down list of available short addresses.  
To swap the short address of one DALI Device with another, simply choose the desired short address of one DALI Device, and the other DALI Device with the same short address will automatically be swapped, and can be seen in the **New SA** column.
- The final DALI short address of the DALI Device.

As new short addresses for DALI Devices are chosen, the **After** grid will update to reflect the change. Short address cells are coloured red to indicate a DALI Device that will have its short address changed.

To apply the short addresses changes, click the **Program** button, which will show this dialogue when re-assigning short addresses.



Short address re-assignment in progress

**Note:** When short address reprogramming has completed, the DALI Devices in the Test Plan will be updated to reflect the change in short address on the physical device.

### 3.2.8 Setting Up Schedules

Setting up all DALI Devices in a Test Plan to be tested according to the AS2293 standard, is a three step process in RAPIX Emergency.

#### Step 1: Creating Test Schedules

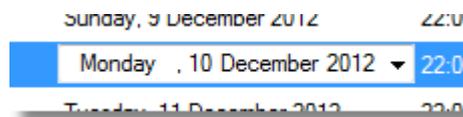
To create test schedules, go to the **Scheduled Tests** tab in Configuration Mode.

See topic [Scheduled Tests Tab](#)<sup>24</sup> for more information about this tab.

On this tab, click the **Add Discharge Schedule** button to create a new Discharge Schedule. Repeat this step for however many Discharge Schedules are required to test the site.

Once the Discharge Schedules have been created and named, set a **Next Run** date and time, which is the time that the Discharge Schedule is next to be run, as well as a **Frequency** and appropriate name.

To set the Next Run value for a schedule, double-click the schedule's next run date. This will enable editing of this value.



Editing a schedule's next run date

The small arrow on the right of the cell can be clicked to reveal a drop-down calendar where a data can be selected.

Next, double-click the values in the **Next Run Time** and **Frequency** columns to edit them.

**Note:** Press the **Tab** key to edit the next cell in the row, or press **Shift-Tab** to edit the previous cell in the row.

#### Step 2: Assigning DALI Devices to Test Groups

When DALI Devices are discovered, they are automatically assigned to test groups such that the test groups will have an equal number of DALI Devices in each.

DALI Devices can be moved from one test group to another, either by dragging and dropping the DALI Device into another test group, or by editing the value displayed in the **Test Group** column, in the DALI Devices list on the DALI Lines tab.

See topic [DALI Lines Tab](#)<sup>19</sup> for more information about changing test groups.

### Step 3: Assigning Test Schedules to Test Groups

Assigning test schedules to test groups is as simple as clicking on a cell in the **Discharge Schedule** or **Function Schedule** columns, and choosing a schedule from the list.

All other DALI Devices on the same DALI Line in the same test group will be assigned that test schedule.

See topic [DALI Lines Tab](#)<sup>19</sup> for more information about assigning schedules to test groups.

### Example: Testing a Site in 4 Parts Over 4 Weeks

Consider a site that is required to be tested in 4 parts, where each part is required to be tested late on a Friday night.

#### Creating the 4 Test Schedules

First, four Discharge Schedules must be created, and each of them must run on a Friday evening.

See topic [Scheduled Tests Tab](#)<sup>24</sup> for more information.

See the screenshot below to see how these Discharge Schedules may be set up.

Schedules	Next Run Date	Next Run Time	Frequency	Type
Discharge Schedules Tests a full discharge of EM devices.				
1. Friday (26 Weeks)	Friday, 9 November 2012	23:00	26 Weeks	Discharge Schedule
2. Friday (26 Weeks)	Friday, 16 November 2012	23:00	26 Weeks	Discharge Schedule
3. Friday (26 Weeks)	Friday, 23 November 2012	23:00	26 Weeks	Discharge Schedule
4. Friday (26 Weeks)	Friday, 30 November 2012	23:00	26 Weeks	Discharge Schedule

Four Discharge Schedules set up to be run on Friday evenings

The first Discharge Schedule **1. Friday (26 Weeks)** will execute on the 9th of November at 11:00 pm. Then, on the following Friday at the same time, **2. Friday (26 Weeks)** will be executed, and so on for the four schedules.

Once each Discharge Schedule is run, its next run date will automatically be incremented by the frequency (26 weeks in this example).

#### Assigning DALI Devices to 4 Test Groups

Next, all of the DALI Devices must be assigned to one of four test groups.

See the section *Configuring Test Groups* in topic [DALI Lines Tab](#)<sup>19</sup> for more information on how to assign test groups to DALI Devices.

See the screenshot below to see how these test groups may be assigned.

DALI Device Name	ID	Short Address	Test Group	Discharge Schedule	Function Schedule	Line Name	Serial Number	Rated Duration
Test Group 1 - no discharge schedule assigned								
Reception Exit		2	1	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L1		11	1	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 2 - no discharge schedule assigned								
Lunch Room		4	2	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L2		12	2	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 3 - no discharge schedule assigned								
Front Offices		1	3	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L3		13	3	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 4 - no discharge schedule assigned								
Rear Offices Exit		3	4	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L4		14	4	<No Discharge Schedule>	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 5								
No DALI Devices								

**Eight DALI Devices assigned to 4 test groups**

### Assigning Schedules to Test Groups

Finally, the Discharge Schedules must now be assigned to the DALI Devices in the test groups.

See the screenshot below to see how these the Discharge Schedules may be assigned.

DALI Device Name	ID	Short Address	Test Group	Discharge Schedule	Function Schedule	Line Name	Serial Number	Rated Duration
Test Group 1 - next scheduled discharge test: Fri 14-Dec-2012 at 22:00								
Reception Exit		2	1	1. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L1		11	1	1. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 2 - next scheduled discharge test: Sat 15-Dec-2012 at 22:00								
Lunch Room		4	2	2. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L2		12	2	2. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 3 - next scheduled discharge test: Sun 16-Dec-2012 at 22:00								
Front Offices		1	3	3. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L3		13	3	3. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 4 - next scheduled discharge test: Mon 17-Dec-2012 at 22:00								
Rear Offices Exit		3	4	4. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Stairwell L4		14	4	4. Friday (26 Weeks)	<No Function Schedule>	124 / 2	45-24-21-01	180 mins
Test Group 5								
No DALI Devices								

**Eight DALI Devices assigned to 4 test groups with Discharge Schedules assigned**

These DALI Devices, when RAPIX Emergency is in Run Mode, will now be tested on consecutive Fridays starting with **New Device 0** and **New Device 10** on Friday the 9th November at 11:00 pm.

**Note:** In the example test groups above, the stairwell DALI Devices are spread across multiple test groups to ensure that a single discharge test will not test the entire stairwell at once. This is to minimise the risk of the entire stairwell not being able to remain illuminated in the case of a power outage occurring when the batteries are not fully charged after a discharge test.

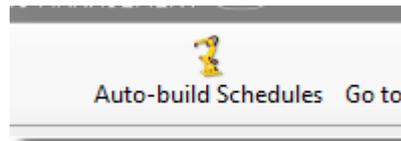
See topic [DALI Lines Tab](#)<sup>19</sup> for more information on test schedule assignment.

### 3.2.9 Auto-build Schedules

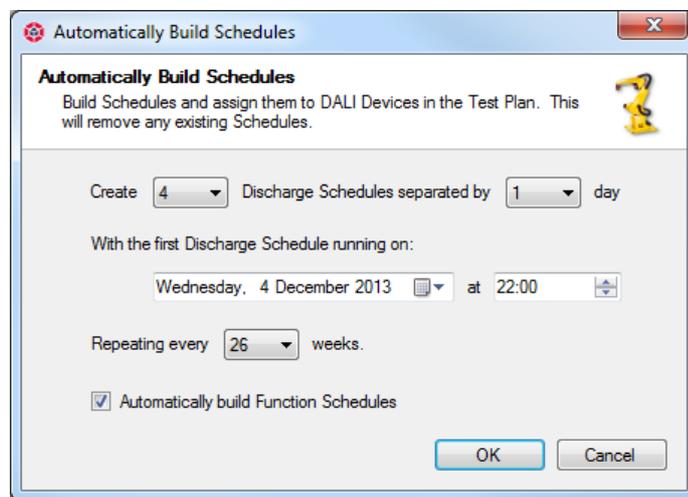
The process of creating schedules, assigning DALI Devices to test groups and associating schedules to test groups can be tedious.

RAPIX Emergency provides a quick method for creating schedules for a Test Plan.

This can be done using the **Automatically Build Schedules** dialogue, by clicking the Auto-build Schedules button on the main toolbar:



The Auto-build Schedules button



The Automatically Build Schedules dialogue

The dialogue allows the configuration of:

- How many Discharge Schedules to create.
- Whether 1 day or 7 days separates consecutive Discharge Schedules.
- When the first Discharge Schedule is to be run.
- How often the Discharge Schedules repeat.
- Whether to create Function Schedules as well.

When the desired options have been chosen, click the **OK** button to apply the changes.

**Note:** A warning will appear upon clicking **OK** confirming the changes, because all existing Discharge Schedules and Function Schedules will be overwritten.

### 3.2.10 Password Management

Parts of RAPIX Emergency are protected by two types of passwords.

The types of passwords that protect different areas of RAPIX Emergency are:

- The supervisor password.
- The maintenance password.

**Note:** The passwords apply to a single installation of RAPIX Emergency, and are first set when

installing RAPIX Emergency. They are not stored in Test Plan files.

## The Supervisor Password

---

The supervisor password provides full access to all areas of RAPIX Emergency.

RAPIX Emergency will ask for a supervisor password when:

- Creating a new Test Plan or opening an existing Test Plan from the Welcome screen.
- Attempting to close down RAPIX Emergency.
- Exiting Run Mode to go to Configuration Mode to reconfigure a Test Plan.
- Closing a running Test Plan in Run Mode.

In essence, the supervisor password is designed to restrict anyone but those with "supervisor" access to RAPIX Emergency from stopping the monitoring of a site.

## The Maintenance Password

---

The maintenance password provides limited access to some areas when RAPIX Emergency is running a Test Plan in Run Mode.

RAPIX Emergency will ask for a maintenance password when:

- Initiating a manual Device Presence Check from the Dashboard.
- Scheduling a manual Discharge Test in Run Mode.
- Running a manual Function Test in Run Mode.
- Removing a manual Discharge Test from the Test Plan when in Run Mode.
- Stopping a currently-active Discharge or Function Test.

In essence, the maintenance password is designed to restrict anyone but those who are responsible for the maintenance of a site from performing any functions on physical DALI Devices.

### 3.2.11 Auto-configure Test Plan

Setting up a Test Plan can be a tedious process, and in many cases it may be sufficient to use the auto-configuration feature of RAPIX Emergency to set up a Test Plan and perform any modifications after.

The auto-configuration feature can be started from a button on the welcome screen, called **Auto-configure Test Plan**.



The auto-configure button on the welcome screen

To automatically configure a site, simply click the **Auto-configure Test Plan** button on the welcome screen. RAPIX Emergency will then, without the need for any user input:

1. Automatically discover any DALI Interface Devices on the local area network, and add them to the Test Plan; then
2. Automatically discover any DALI Devices connected to any of the discovered DALI Interface Devices, and add them to the Test Plan; then

3. Place all of the discovered DALI Devices into 4 test groups; then
4. Create 4 Discharge Schedules and 4 Function Schedules and assign them to the 4 test groups; then
5. Show a summary dialogue that notifies the user how many DALI Interface Devices, DALI Lines, and DALI Devices were added to the Test Plan.

**Note:** The default setup for Discharge Schedules when using this feature, is to create Discharge Schedules that will run a day apart, with a repeat frequency of 26 weeks.

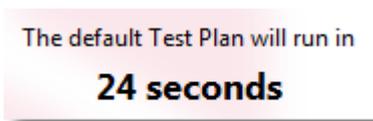
After using this feature to set up a Test Plan, the DALI Devices can be moved between test groups, and schedules can be modified as required.

## 4 Monitoring a Site

### 4.1 User Interface (Run Mode)

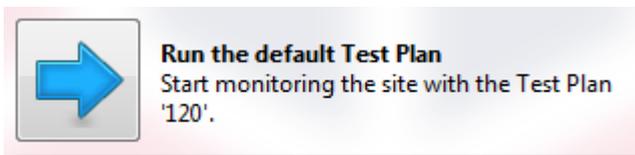
There are 3 ways to enter Run Mode.

1. When RAPIX Emergency opens it will, after 30 seconds, attempt to open the default Test Plan in Run Mode.



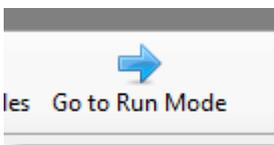
The welcome screen's Test Plan countdown

2. By clicking the **Run the default Test Plan** button on the welcome screen, to open the Test Plan in Run Mode.



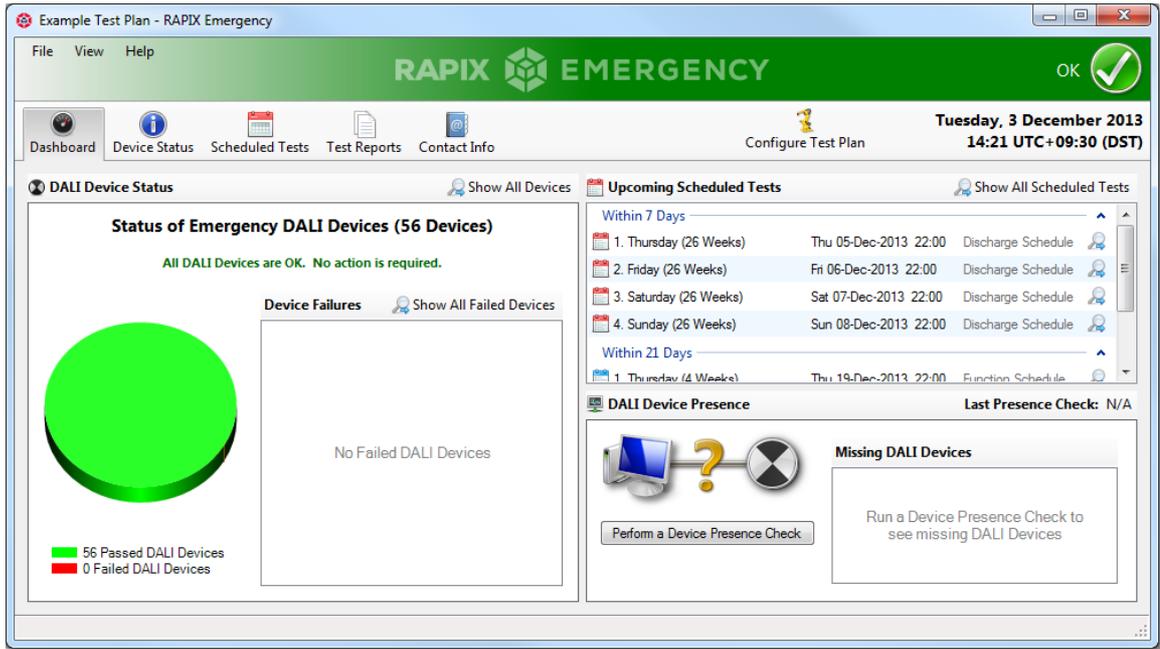
The Run the default Test Plan button

3. By clicking the **Go to Run Mode** button in Configuration Mode.



The Go to Run Mode button

When in Run Mode, the user interface consists of a single window where a Test Plan can be managed, and the status of DALI Devices can be viewed.



A Test Plan in the Run Mode user interface

## Status Bar

The menu and status bar provides functionality to manage Test Plans, and to view the overall status of the Test Plan.

## No Failures in the Test Plan

If all DALI Devices in the Test Plan are OK and have passed all of the Discharge Schedules and Function Schedules assigned to them, then the Test Plan is considered to be OK, and the status bar will be displayed in green, as follows:



The Run Mode status bar indicating that everything is OK

## Failures in the Test Plan

If one or more DALI Devices has not passed a Discharge Schedule or Function Schedule, then the whole Test Plan is considered to be in an error state, and the status bar will be displayed in red, with a short summary of how many failures are present in the Test Plan written on the right hand side:



The Run Mode status bar indicating that 14 failed DALI Devices and 2 untested DALI Devices

When displaying failures in the Test Plan, number of DALI Devices that have failed a test, as well as the number of DALI Devices that have not yet been tested, will be displayed in the status bar.

## Tests Currently Running

---

If there are any tests that are currently running, the status bar will be displayed in blue, and an animated icon showing chasing arrows will be shown, as follows:



The Run Mode status bar indicating that a test is currently running

When tests complete, and there are no more currently-active tests, then the status bar will return to a colour indicating the new state of the Test Plan.

## Menu Bar

---

The menu bar provides functionality to manage Test Plans.

### File Menu

---

#### "Close" menu-item

Click this to close the currently-running Test Plan. A supervisor password will be required before a Test Plan can be closed. Once the Test Plan is closed, RAPIX Emergency will return to the Welcome screen.

#### "Exit" menu-item

Click to exit RAPIX Emergency. A supervisor password will be required before RAPIX Emergency can be exited.

### View Menu

---

The View menu allows for navigation between the 5 tabs mentioned below. Click any menu-item to show that tab.

The menu-item representing the currently-visible tab will be displayed with a tick next to it.

### Help Menu

---

The Help menu provides access to the RAPIX Emergency help files and About dialogue.

#### "Help Contents..." menu-item

Click this item to open the help file for RAPIX Emergency.

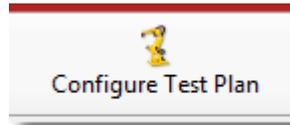
#### "About RAPIX Emergency..." menu-item

Click this item to open the About dialogue for RAPIX Emergency.

## Configuring a Test Plan

---

The tab bar in Run Mode provides a button called **Configure Test Plan**, which, when the Test Plan requires re-configuring, can be clicked to exit Run Mode and enter Configuration Mode to edit it.



The Configure Test Plan button

A supervisor password will be required before RAPIX Emergency can exit Run Mode.

## Date and Time Display

---

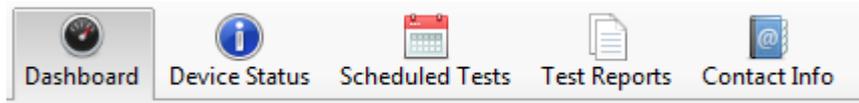
When RAPIX Emergency is in Run Mode, the current date and time is always displayed.

The time zone offset, and whether daylight savings is currently active, is also displayed.

## Run Mode Tabs

---

This window consists of five main tabs that allow for the on-going management and maintenance of a Test Plan.



Run Mode tabs

The tabs are explained below.

### Dashboard tab

---

This tab is used to view the current status of a Test Plan in three ways:

- The number of DALI Device failures, and their failure types, can be seen.
- Any upcoming tests that are scheduled to be run within the next four weeks, can be seen.
- Any DALI Devices that are considered missing after running a Device Presence Check can be seen.

See topic [Dashboard Tab](#)<sup>48</sup> for more information about this tab.

### Device Status tab

---

This tab is used to view the status of, and identify, DALI Interface Devices and DALI Devices. Manual discharge and function tests can also be initiated from this tab.

See topic [Device Status Tab](#)<sup>50</sup> for more information about this tab.

### Scheduled Tests tab

---

This tab is used to view scheduled tests, and to see when particular DALI Devices are to be tested.

See topic [Scheduled Tests Tab](#)<sup>55</sup> for more information about this tab.

### Test Reports tab

This tab is used to view the PDF test reports that are generated when tests complete.

See topic [Test Reports Tab](#)<sup>56</sup> for more information about this tab.

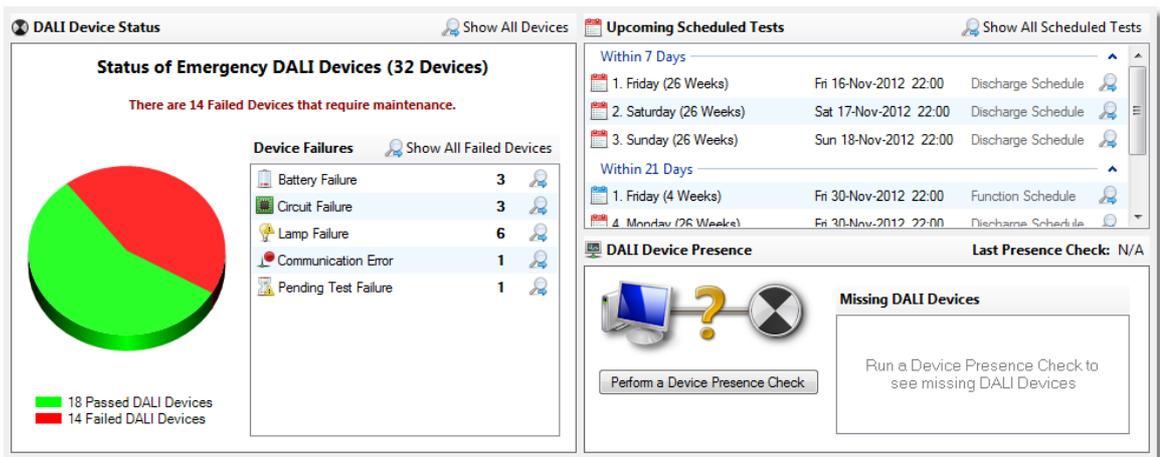
### Contact Info tab

This tab is used to view the contact details of people who may be required to be contacted in case of problems with the site.

See topic [Contact Info Tab](#)<sup>57</sup> for more information about this tab.

## 4.1.1 Dashboard Tab

This tab provides a quick at-a-glance view of the status of a Test Plan.



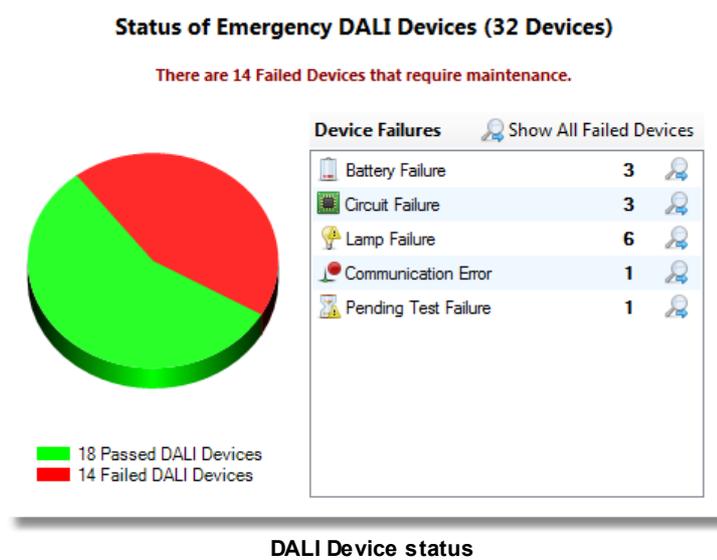
The Dashboard tab

At a glance, the status of DALI Devices can be seen, as well as what scheduled tests are upcoming, and which DALI Devices, if any, are currently not accessible via RAPIX Emergency.

**Note:** Anywhere where there is a magnifying glass icon can be clicked to navigate RAPIX Emergency to either the Device Status tab or the Scheduled Tests tab, to display more information about the item that was clicked.

### Status of DALI Devices

The DALI Device status section of the Dashboard tab displays a tally of all of the DALI Devices that have passed and failed their scheduled tests.



### Pie Chart

The pie chart represents all of the DALI Devices in the Test Plan, with the green and red sectors representing the number of DALI Devices that have passed or failed their tests, respectively.

The green and red sectors can be single-clicked, to display all of the respective DALI Devices in the Device Status tab.

### Device Failures List

The list of DALI Device failures tallies up all of the different types of DALI Device failures in the Test Plan.

Clicking the **Show All Failed Devices** button will show the **Device Status** tab, and filter all DALI Devices in the Test Plan to show all of the failed DALI Devices only.

The magnifying glass icons in the list can be single-clicked, which will go to the **Device Status** tab to display all of the DALI Devices with that reported failure type. For example, clicking the magnifying glass for the *Battery Failure* row will display all of the DALI Devices that have reported a battery failure, on the **Device Status** tab. Note that each row can also be double-clicked to perform the same action.

### Upcoming Scheduled Tests

The Upcoming Scheduled Tests section displays all of the scheduled tests in the Test Plan that are scheduled to run within the next 4 weeks.

Within 7 Days			
1. Friday (26 Weeks)	Fri 16-Nov-2012 22:00	Discharge Schedule	
2. Saturday (26 Weeks)	Sat 17-Nov-2012 22:00	Discharge Schedule	
3. Sunday (26 Weeks)	Sun 18-Nov-2012 22:00	Discharge Schedule	
Within 21 Days			
1. Friday (4 Weeks)	Fri 30-Nov-2012 22:00	Function Schedule	
4. Monday (26 Weeks)	Fri 30-Nov-2012 22:00	Discharge Schedule	

**Upcoming Schedules**

The scheduled tests are listed in time order, such that scheduled tests that will run sooner will be displayed at the top, and scheduled tests that will run later will be displayed at the bottom.

The scheduled tests are also grouped into one-week groups, to make it easier to see which tests will run in the next 7 days, 14 days, and so on.

The magnifying glass icons in the list can be single-clicked, which will go to the **Scheduled Tests** tab to display more information about the selected scheduled tests. Note that each row can also be double-clicked to perform the same action.

### DALI Device Presence

The DALI Device Presence section displays all of the DALI Devices in the Test Plan that are considered to be missing.

When RAPIX Emergency enters Run Mode, a Device Presence Check is automatically run, whereby all of the DALI Devices in the Test Plan are polled to check that they are still connected to DALI. A Device Presence Check is also run once per week thereafter.

Any DALI Devices that do not respond will be considered missing. Note that if a communication fault occurs between RAPIX Emergency and DALI, all of the affected DALI Devices may be considered missing.



Device Presence Check showing missing DALI Devices

The list displays all of the missing DALI Devices, which are grouped by the DALI Line on which they reside.

The magnifying glass icons in the list can be single-clicked, which will show the **Device Status** tab to display more information about the selected DALI Device. Note that each row can also be double-clicked to perform the same action.

#### Running a Manual Device Presence Check

A manual Device Presence Check can be triggered by clicking the **Perform a Device Presence Check** button. The Device Presence Check can take a few seconds, during which time a cancel button will be visible.

If there are missing DALI Devices, a Device Presence Check can be run on just those missing DALI Devices to check if they are still missing by clicking the **Recheck Missing Devices** button.

#### 4.1.2 Device Status Tab

This tab is used to view the status of, and identify, DALI Interface Devices and DALI Devices.

The screenshot shows two tabs: 'DALI Lines' and 'DALI Devices'. The 'DALI Lines' tab is active and shows a table with the following data:

Line Name	Interface Device Name	Connection	Number of Devices
Not OK			
✘ First Floor	ETH-120	● 192.168.10.120 / 1	24
✘ Second Floor	ETH-120	● 192.168.10.120 / 2	8

The 'DALI Devices' tab is also visible and shows a table with the following data:

Device Name	ID	Last Tested	Next Discharge	Next Function	Failure Type
✘ New Device 42		Wed 14-Nov-2012	Fri 16-Nov-2012	Fri 30-Nov-2012	Battery Failure
✘ New Device 45		Wed 14-Nov-2012	Sat 17-Nov-2012	Sat 01-Dec-2012	Battery Failure
✘ New Device 46		Wed 14-Nov-2012	Sun 18-Nov-2012	Sun 02-Dec-2012	Communication Error
OK					
✔ New Device 3		Wed 14-Nov-2012	Fri 16-Nov-2012	Fri 30-Nov-2012	
✔ New Device 5		Wed 14-Nov-2012	Sun 18-Nov-2012	Sun 02-Dec-2012	
✔ New Device 6		Wed 14-Nov-2012	Fri 30-Nov-2012	Mon 03-Dec-2012	

The Device Status tab

## DALI Lines list

The top-most list displays all of the DALI Lines in the Test Plan.

Each row represents a DALI Line, and displays the following attributes for each DALI Line:

- The name of the DALI Line.
- The name of the DALI Interface Device that the DALI Line is a part of.
- What type of connection is made to the DALI Line; whether it is Ethernet-based or Serial-based.
- The number of DALI Devices on the DALI Line.
- The status of the DALI Line.

The status is depicted by the icon on the left-side of each row, where a DALI Line with a red cross is considered not OK, and a DALI Line with a green tick is considered OK.

A DALI Line is OK only if all of its DALI Devices have passed their tests.

## DALI Line Buttons

There are buttons that allow for the manual testing, and identification, of DALI Devices.



Toolbar for the DALI Lines list

### "Test" drop-down button

Click this button to reveal a menu that provides the ability to run a manual function test, and to schedule a manual discharge test. These actions require a maintenance password to be entered before continuing.

See topic [Run a Manual Function Test](#)<sup>58</sup> for more information about running a manual function test on DALI Devices, and topic [Scheduling a Manual Discharge Test](#)<sup>60</sup> for more information about scheduling a manual discharge test.

### "Identify DALI Line" button

Click this button when there are DALI Lines selected in the list, to commence identification of the DALI Interface Devices and DALI Devices on those DALI Lines. This button will remain checked until clicked again..

## DALI Devices list

The bottom-most list displays all of the DALI Devices for the selected DALI Lines.

Each row represents a DALI Device, and displays the following attributes for each DALI Device:

- The name of the DALI Device.
- The ID of the DALI Device, which is a text-based property describing it.
- The date that the DALI Device last performed a discharge test or function test, whichever was sooner.
- The date that the DALI Device is to next run a discharge test.
- The date that the DALI Device is to next run a function test.
- The status of the DALI Device.

### DALI Devices Buttons

There is a button that allows for the identification of DALI Devices.



Toolbar for the DALI Devices list

#### "Identify DALI Device" button

Click this button when there are DALI Devices selected in the list, to commence identification of the DALI Devices. This button will remain checked until clicked again.

### More Information About DALI Devices

When a DALI Device is selected in the list, a pop-up appears in the lower-right of the list, displaying more information about the status of the DALI Device.



Device Status pop-up for a selected DALI Device

The pop-up displays both the result and date that the DALI Device ran a function test and a discharge test.

### Right-click Menus

Right-click in the DALI Devices list to access extra options for the selected DALI Device.



Right-click menu in DALI Devices list

**"Show Last Discharge Test Full Report..." item**

Click this item to view the full PDF test report for the last discharge test that the selected DALI Device performed. RAPIX Emergency will go to the **Test Reports** tab and select the PDF test report in the list, and then attempt to open the PDF test report in the computer's default PDF file viewer. See topic [Test Reports](#)<sup>64</sup> for more information about the different types of RAPIX Emergency test reports.

**"Show Last Discharge Test Repair Report..." item**

Click this item to view the PDF repair report for the last discharge test that the selected DALI Device performed. RAPIX Emergency will go to the **Test Reports** tab and select the PDF test report in the list, and then attempt to open the PDF test report in the computer's default PDF file viewer. See topic [Test Reports](#)<sup>64</sup> for more information about the different types of RAPIX Emergency test reports.

**"Show Last Function Test Full Report..." item**

Click this item to view the full PDF test report for the last function test that the selected DALI Device performed. RAPIX Emergency will go to the **Test Reports** tab and select the PDF test report in the list, and then attempt to open the PDF test report in the computer's default PDF file viewer. See topic [Test Reports](#)<sup>64</sup> for more information about the different types of RAPIX Emergency test reports.

**"Show Last Function Test Repair Report..." item**

Click this item to view the PDF repair report for the last function test that the selected DALI Device performed. RAPIX Emergency will go to the **Test Reports** tab and select the PDF test report in the list, and then attempt to open the PDF test report in the computer's default PDF file viewer. See topic [Test Reports](#)<sup>64</sup> for more information about the different types of RAPIX Emergency test reports.

**"Show Device's Next Run Discharge Schedule in 'Scheduled Tests' View" item**

Click this item when a DALI Device is selected in the list, to show the DALI Device's discharge test that it will next run in the **Scheduled Tests** tab. RAPIX Emergency will select the Discharge Schedule in the **Scheduled Tests** tab, and then select the DALI Device in that test as well.

**"Show Device's Function Schedule in 'Scheduled Tests' View" item**

Click this item when a DALI Device is selected in the list, to show the DALI Device's function test that it will next run in the **Scheduled Tests** tab. RAPIX Emergency will select the Function Schedule in the **Scheduled Tests** tab, and then select the DALI Device in that test as well.

## Searching for DALI Lines or DALI Devices

In the top-right corner of the tab is a search box and search buttons, which can be used to search for DALI Lines and DALI Devices.



The search bar on the Device Status tab

DALI Lines and DALI Devices can be searched by typing in text, and by filtering based on the status of the DALI Devices.

The status filter buttons, from left to right, which can display DALI Devices based on their status, are:

- **All.** Show all DALI Devices in the Test Plan regardless of their status.
- **All Passed.** Show all DALI Devices in the Test Plan that have passed their most recent tests.

- **All Failed.** Show all DALI Devices in the Test Plan that have failed a discharge or function test for any reason.
- **Battery Failures.** Show all DALI Devices in the Test Plan that report a battery failure.
- **Lamp Failures.** Show all DALI Devices in the Test Plan that report a lamp failure.
- **Communication Failures.** Show all DALI Devices in the Test Plan that report a communication failure.
- **Circuit Failures.** Show all DALI Devices in the Test Plan that report a circuit failure.
- **Pending Test Failures.** Show all DALI Devices in the Test Plan that report a pending test failure.
- **Missed Discharge Test.** Show all DALI Devices in the Test Plan that report that they have missed a scheduled discharge test.
- **Overdue for Discharge Test.** Show all DALI Devices in the Test Plan that have not been tested for more than six months.
- **Discharge Test Aborted.** Show all DALI Devices in the Test Plan that aborted their last discharge test.
- **Never Discharge Tested.** Show all DALI Devices in the Test Plan that have never been discharge tested.

Search matches are highlighted in yellow in the lists.

*Note: If the search text that has been entered yields no results, the colour of the search box turns red.*

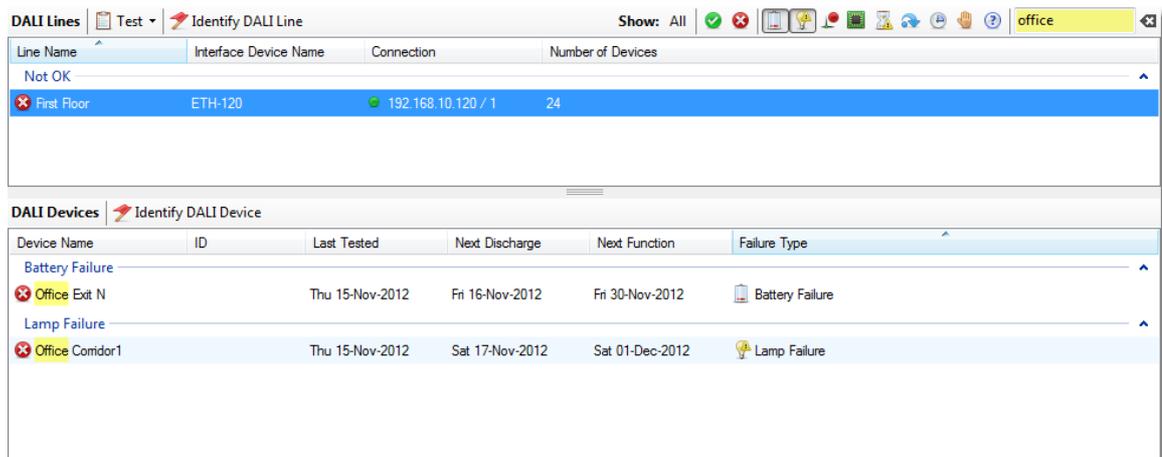
Searching for DALI Lines and DALI Devices based on their status, as well as text, can be performed. See the examples below for more information.

**Example: Searching for all DALI Devices Tagged "Office" with a Battery or Lamp Failure**

To search for all DALI Devices that are tagged with the name "office", which have reported a battery or lamp failure:

1. Click the battery failure button and the lamp failure button.
2. Type the text "office" into the search box.

*Note: Searching by text is case insensitive.*

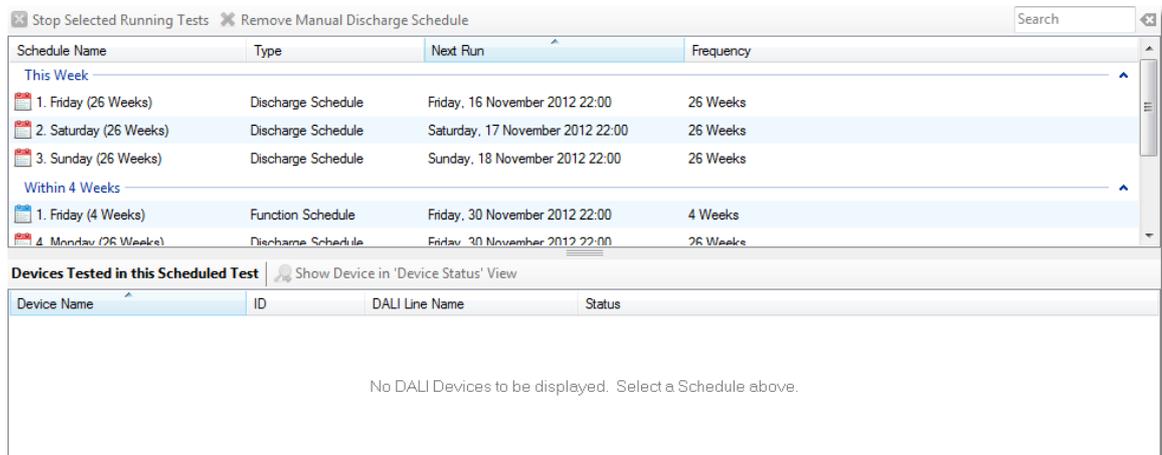


Searching for battery and lamp failures on DALI Devices tagged with the name "office"

All DALI Devices matching the search criteria will be shown, and the word "office" will be highlighted in yellow.

### 4.1.3 Scheduled Tests Tab (Run Mode)

This tab is used to view scheduled tests in a Test Plan.



Schedule Name	Type	Next Run	Frequency
<b>This Week</b>			
1. Friday (26 Weeks)	Discharge Schedule	Friday, 16 November 2012 22:00	26 Weeks
2. Saturday (26 Weeks)	Discharge Schedule	Saturday, 17 November 2012 22:00	26 Weeks
3. Sunday (26 Weeks)	Discharge Schedule	Sunday, 18 November 2012 22:00	26 Weeks
<b>Within 4 Weeks</b>			
1. Friday (4 Weeks)	Function Schedule	Friday, 30 November 2012 22:00	4 Weeks
4. Monday (26 Weeks)	Discharge Schedule	Friday, 30 November 2012 22:00	26 Weeks

Device Name	ID	DALI Line Name	Status
No DALI Devices to be displayed. Select a Schedule above.			

The Scheduled Tests tab

### Schedules list

The top-most list displays all of the schedules in the Test Plan.

Each row represents a schedule, and displays the following attributes for each schedule:

- The name of the schedule.
- What type of schedule it is.
- The date and time that the schedule is to be run next.
- How often the schedule will be run.

### Schedule Buttons

There are buttons that allow the cancellation of currently-active schedules and removal of manual Discharge Schedules.



Toolbar for the Schedules list

#### "Stop Selected Running Tests" button

Click this button when there are currently-active schedules selected in the list, to stop them immediately. A maintenance password will be required to perform this action. See topic [Stopping Active Schedules](#)<sup>64</sup> for more information about stopping currently-active schedules.

#### "Remove Manual Discharge Schedule" button

Click this button when there is a manual Discharge Schedule selected in the list, to remove it from the Test Plan. A maintenance password will be required to perform this action.

### Right-click Menus

Right-click in the schedules list to access the same functionality as in the toolbar.

### Devices Tested in this Scheduled Test list

---

The bottom-most list displays all of the DALI Devices that are tested by the currently-selected schedule.

**Note:** DALI Devices will be shown only if one schedule is selected at a time.

Each row represents a DALI Device, and displays the following properties for each DALI Device:

- The name of the DALI Device.
- The ID of the DALI Device, which is a text-based property describing it.
- The name of the DALI Line that the DALI Device is on.
- The current status of the DALI Device.

### Devices Tested in this Scheduled Test Buttons

---



#### "Show Device in 'Device Status' View" button

Click this button to show the selected DALI Device in the Device Status tab. This will select the DALI Line that the selected DALI Device is on, and then select the DALI Device itself.

### Right-click Menus

---

Right-click in the Devices Tested in this Scheduled Test list to access the same functionality as in the toolbar.

### Searching for Schedules or DALI Devices

---

In the top-right corner of the tab is a search box, which can be used to search for schedules and the DALI Devices tested by them.



The search box

Search matches are highlighted in yellow in the lists.

**Note:** If the search text that has been entered yields no results, the colour of the search box turns red.

#### 4.1.4 Test Reports Tab

This tab is used to view PDF test reports generated by RAPIX Emergency after tests on DALI Devices have been run.

Test Name	Test Date	Type of Test	Report Type
Thu 15-Nov-2012 15:23			
Weekly Zone 1 Function Test	Thu 15-Nov-2012 15:23	Function Test	Full Test Report
Weekly Zone 1 Function Test	Thu 15-Nov-2012 15:23	Function Test	Repair Report

The Test Reports tab showing two PDF reports

The list displays all of the PDF test reports for the Test Plan.

Each row represents a PDF report, and displays the following attributes for each report:

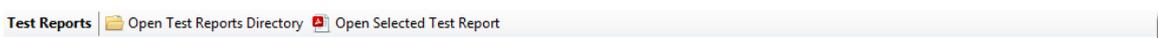
- The name of the report.
- The date of the test that was performed which generated the report.
- The type of test that was performed which generated the report.
- The type of report.

When a test completes and the PDF reports have been generated, they will automatically appear in this list.

See topic [Test Reports](#)<sup>64</sup> for more information about test reports.

### Test Report Buttons

There are buttons that allow for the viewing of PDF test reports.



Toolbar for the Test Reports list

#### "Open Test Reports Directory" button

Click this button to open the directory where all of the PDF test reports are stored, in Windows Explorer.

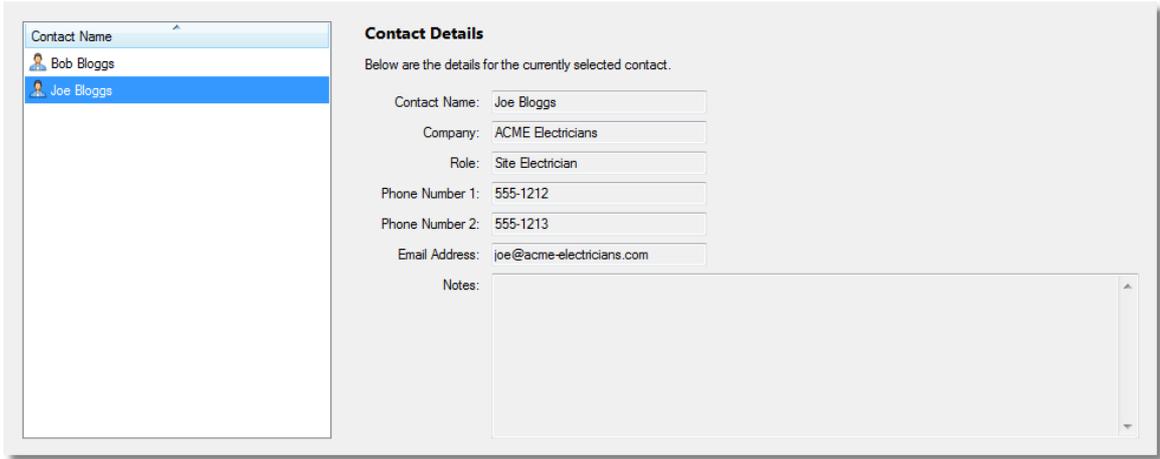
#### "Open Selected Test Report" button

Click this button when there is a PDF report selected in the list, to open the report in the computer's default PDF viewer.

**Note:** PDF reports can also be opened in the computer's default PDF viewer by double-clicking the PDF report row in the list.

### 4.1.5 Contact Info Tab (Run Mode)

This tab is used to view contacts who can be contacted in case of a problem with the Test Plan.



The Contact Info tab

To view the details of a contact, simply click a contact's name in the list on the left. The details for that contact will then be displayed in the fields on the right.

## 4.2 Basic Working Procedures

This section describes the most common and important basic tasks that will be used when monitoring a site using a RAPIX Emergency Test Plan.

It is designed as a "How To" guide and reference manual.

### 4.2.1 Run a Manual Function Test

A manual function test can be run on DALI Devices at any time, by initiating a new test from the **Device Status** tab.

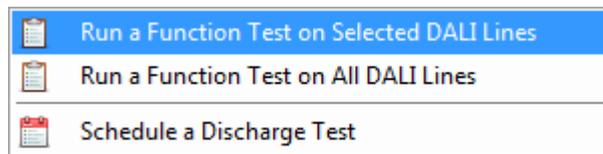
To run a manual function test, simply click the **Test** menu in the DALI Lines toolbar.



The Test menu button in the DALI Lines toolbar

Then, in the resulting drop-down menu, there is an option to perform a function test on:

- All of the DALI Devices on the currently-selected DALI Lines in the DALI Lines list.
- All DALI Devices on all DALI Lines in the Test Plan.

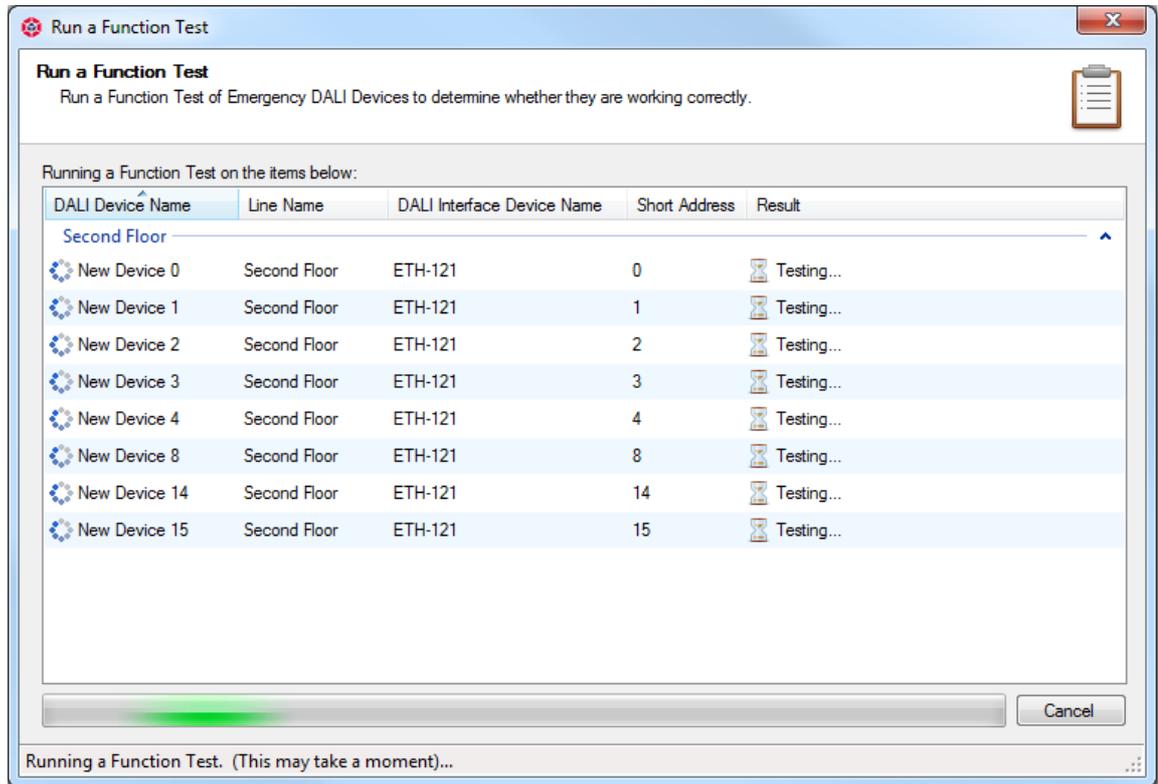


The Tests drop-down menu

Both of these options will launch the **Run a Function Test** dialogue, and a function test will begin immediately.

### The Run a Function Test dialogue

The **Run a Function Test** dialogue displays all of the DALI Devices that are being manually function test.



The Run a Function Test dialogue testing 8 DALI Devices

Each row in the list represents a DALI Device, and displays the following properties for each DALI Device:

- The name of the DALI Device.
- The name of the DALI Line that the DALI Device is on.
- The name of the DALI Interface Device that the DALI Device is on.
- The short address of the DALI Device.
- The result of the function test on the DALI Device.  
The result of the function test on a DALI Device will be **Testing...** while the function test is in progress.  
Once the function test completes, the result of the function test will then be displayed.

### ***Aborting the Function Test***

To abort the function test, simply click the **Cancel** button, or click the red **X** in the top-right corner of the window.

The function test will then be immediately cancelled.

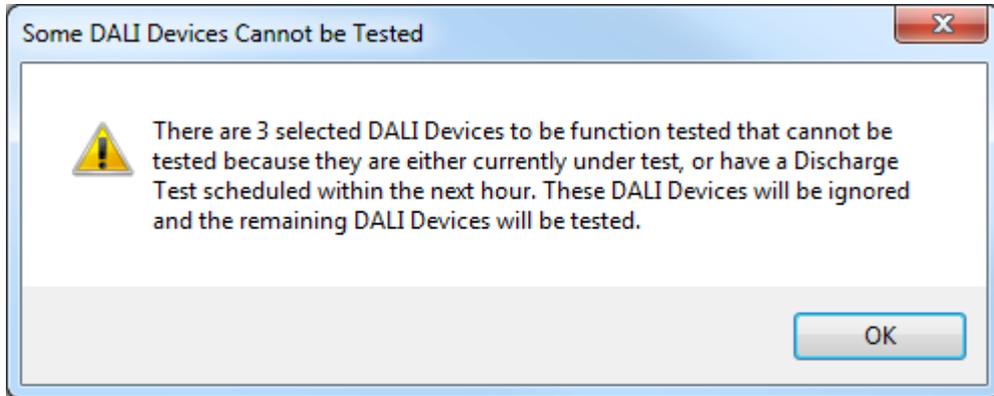
### **Conditions for DALI Devices to Perform a Function Test**

There are conditions that a DALI Device must meet if it is to perform a function test.

To perform a function test, the DALI Device must:

- Not currently be under test.
- Not have a scheduled or manual discharge test scheduled to be run on it within the next hour.

If any DALI Devices do not meet these conditions, a warning will be shown, similar to below:



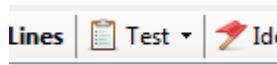
Warning shown when DALI Devices cannot perform a function test

The DALI Devices that cannot be tested will be ignored for this function test.

#### 4.2.2 Scheduling a Manual Discharge Test

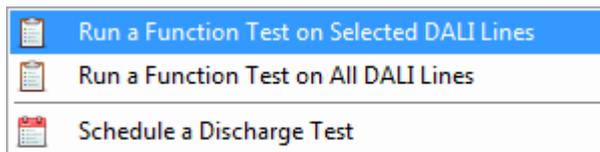
A manual discharge test can be run on DALI Devices at any time, via the **Device Status** tab.

To schedule a new manual discharge test, simply click the **Test** menu in the DALI Lines toolbar.



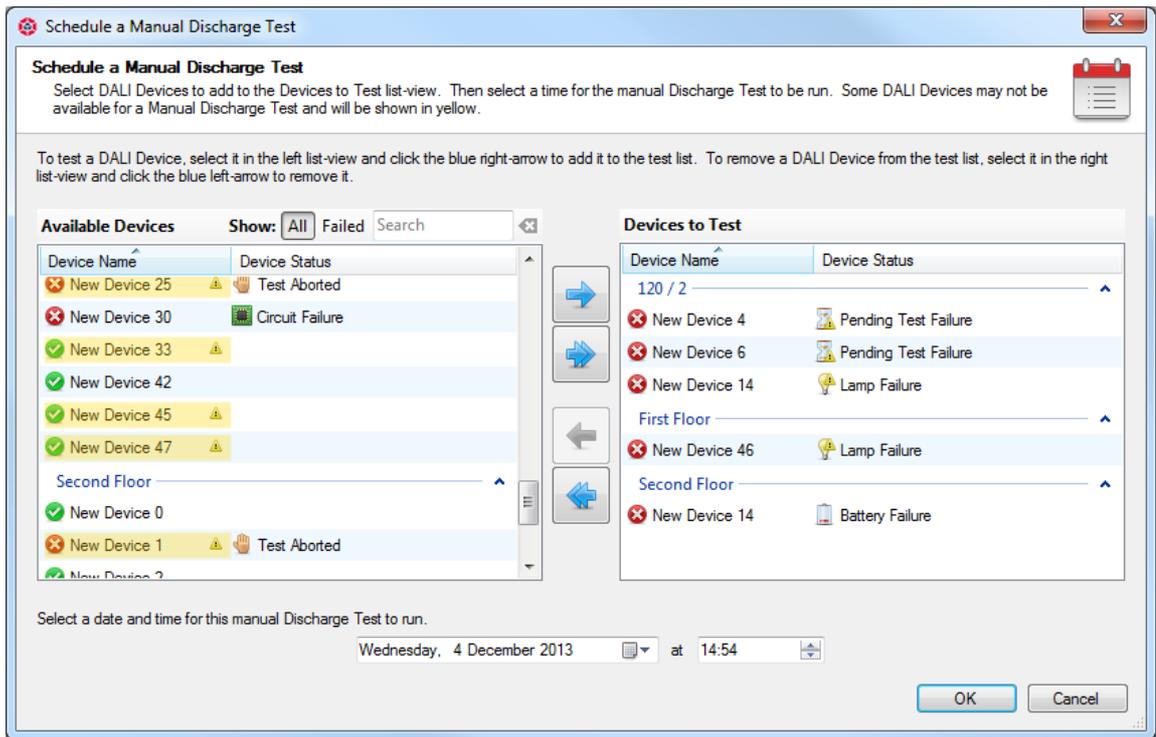
The Test menu button in the DALI Lines toolbar

Then, in the resulting drop-down menu, there is the option to schedule a new discharge test.



The Tests drop-down menu

Select the **Schedule a Discharge Test** item to show the **Schedule a Manual Discharge Test** dialogue.



The Schedule a Manual Discharge Test dialogue

From this dialogue, the DALI Devices can be configured, as well as the date and time that the schedule is due to run.

## Available Devices list

The available DALI Devices list displays all of the DALI Devices that can be added to the manual Discharge Schedule.

Each row represents a DALI Device, and displays the following properties for each DALI Device:

- The name of the DALI Device.
- The current status of the DALI Device.
- Whether or not the DALI Device can be added to the Discharge Schedule (displayed with yellow highlighting).

All of the DALI Devices displayed in this list are grouped by their DALI Line.

## Searching for Available DALI Devices

In the top-right corner above the Available Devices list, is a search box and search buttons, which can be used to search for DALI Devices.



The Available Devices search box

DALI Devices can be searched for by typing in text, and by selecting whether to show all DALI Devices or only failed DALI Devices.

Search matches are highlighted in yellow in the list.

**Note:** If the search text that has been entered yields no results, the colour of the search box turns red.

### Devices to Test list

---

The **Devices to Test** list displays all of the DALI Devices that have been added to the manual Discharge Schedule.

Each row represents a DALI Device, and displays the following properties for each DALI Device:

- The name of the DALI Device.
- The current status of the DALI Device.

All of the DALI Devices displayed in this list are grouped by their DALI Line.

### Default DALI Device Setup

---

By default, when this dialogue is opened, the **Devices to Test** list will be pre-populated with all of the failed DALI Devices in the Test Plan.

This makes it easy when wanting to schedule a manual discharge test to re-test all of the failed DALI Devices in the Test Plan, after making repairs to them.

### Adding or Removing DALI Devices to the Test

---

DALI Devices can be added and removed from the list of DALI Devices to Test.

#### Adding a DALI Device to the Test

---

To add a DALI Device to the test, simply select the DALI Device to be added in the **Available Devices** list, then click the **Add DALI Device** button, depicted by a blue right-pointing arrow.



From top to bottom: The Add, All All, Remove, and Remove All buttons

The DALI Device can also be added to the **Devices to Test** list by double-clicking the DALI Device to be added.

To add all DALI Devices to the manual Discharge Schedule, simply click the **Add All DALI Devices**

button.

### Removing a DALI Device from the Test

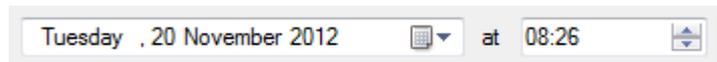
To remove a DALI Device from the test, simply select the DALI Device to be removed in the **Devices to Test** list, then click the **Remove DALI Device** button, depicted by a blue left-pointing arrow.

The DALI Device can also be removed from the **Devices to Test** list by double-clicking the DALI Device to be removed.

To remove all DALI Devices from the manual Discharge Schedule, simply click the **Remove All DALI Devices** button.

### Setting the Run Date

To set the date and time that the schedule is to be run, simply choose the desired date and time via the picker controls.



The Manual Discharge Schedule date and time pickers

The allowable date selection is restricted to between the time that the dialogue was opened, and the end of the 7th day from now. Also, by default, when the dialogue opens, the date and time will be set to 24 hours and 30 minutes from now.

So, for example, if it is Monday the 19th of November 2012 at 9:17 am, then:

- The default run date for the schedule will be set to Tuesday the 20th of November at 9:47 am.
- The latest possible date and time that can be selected is Monday the 26th of November at 11:59 pm.

The purpose of the default date and time being set to 24 hours and 30 minutes in the future, is to minimise the chances of battery failures being reported on DALI Devices that may have been tested within the last 24 hours, (which have hence not had sufficient time to recharge).

### Manual Discharge Test Requirements for DALI Devices

Some DALI Devices may be highlighted in yellow, indicating that they are not able to be added to the **Devices to Test** list for testing.



Untestable DALI Device

A DALI Device is not able to be manually discharge tested, if:

- It is already scheduled for a discharge test within the next 8 days.  
The possibility may exist where a DALI Device may be scheduled for a discharge test, within 24 hours of the manual discharge test.
- If it is currently under test.  
The possibility may exist, if a DALI Device is currently being discharge tested, that it can be

scheduled for a manual discharge test without sufficient time given for the battery to be recharged.

### 4.2.3 Stopping Active Schedules

When monitoring a site with a Test Plan, sometimes it may be necessary to stop a scheduled discharge or function test.

In RAPIX Emergency, this can be done on the **Scheduled Tests** tab:

1. Select the currently-running schedule that is to be aborted in the schedules list.
2. Click the **Stop Selected Running Tests** button in the toolbar.
3. Enter the maintenance password to continue.
4. If aborting a discharge test, the name of the person cancelling the test, and a reason for why the test was cancelled, must be entered.

The user name and reason are published in the aborted test's PDF reports.

The Abort a Discharge Test dialogue

### Aborting a Discharge Test

When aborting a discharge test, all of the DALI Devices that were being tested will cancel their tests, and will report the **Test Aborted** state.

### Aborting a Function Test

When aborting a function test, all of the DALI Devices that were being tested will cancel their tests, and no results will be published for the DALI Devices. The effect of aborting a function test is the same as not running a function test at all.

## 4.3 Test Reports

Test reports are reports that are automatically generated by RAPIX Emergency upon the completion of a function test or discharge test.

The test reports are written in PDF format, which requires a PDF viewer like Adobe Reader to view.

## Types of Test Reports

---

RAPIX Emergency generates two types of reports upon the completion of a discharge test or function test.

They are:

- The full test report; and
- The repair report.

### Full Test Report

---

The full test report is a summary of all of the results from the discharge or function test.

This report begins with a pie chart representing the proportion of DALI Devices that passed the test, versus the DALI Devices that failed the test. The number of failures and passes is also noted.

The report then continues with a table, with each row representing every DALI Device in the test, grouped by DALI Line. Each row displays:

- The name of the DALI Device.
- The ID of the DALI Device, which is a text-based property describing it.
- The short address of the DALI Device.
- The DALI Device's result from the test.

Any rows in the table that represent DALI Devices that failed the test will be displayed in red for easy viewing.

### Repair Report

---

The repair report is a summary of all of the failed DALI Devices from a test.

This report, once printed out, can be used by building maintainers to track the maintenance of failed DALI Devices.

This report lists all of the failed DALI Devices as rows in the table, but also provides room for the building maintainers to log any maintenance performed, including:

- **Maintenance Performed.** What was done with this DALI Device to fix it. For example, "Replaced battery", or "Replaced lamp".
- **Date.** The date that the maintenance on the DALI Device was performed.
- **Initials.** The initials of the person who performed the maintenance.

At the end of the report is a section entitled Maintenance Details, which can be used by a building manager to sign off on the maintenance work that was performed. The report provides space for:

- **Company Name.** The name of the company that performed the maintenance.
- **Address.** The physical address of the company that performed the maintenance.
- **Phone Number.** The phone number that can be used to contact the maintainers.
- **Signature.** The signature of the person responsible for the maintenance.
- **Printed Name.** The name of the person responsible for the maintenance.
- **Date.** The date that the maintenance was signed off.

## Generation and Retention of Test Reports

---

Both the full test reports and repair reports are generated upon the completion of a discharge test or function test.

If emails have been set up in the Test Plan, an email will also be sent with both reports attached.

RAPIX Emergency will never remove old test reports.

The end user is responsible for archiving the test reports in accordance to the AS2293 standard.

## Test Report File Names

---

The file names of RAPIX Emergency test reports are generated automatically. For easy identification, the following information is in the file name:

- The test's start date and time.
- The type of test the report is for (discharge test or function test).
- The type of report (full test report or repair report).
- The name of the test itself.

For example, the following file name:

**20121115\_1523\_FunctionTest\_RepairReport\_Weekly Zone 1 Function Test.pdf**

represents a PDF report that is reporting on the failed DALI Devices of a **function test**, that was performed on the **15th of November 2012 at 3:23 pm**, and the name of the test that was performed is **Weekly Zone 1 Function Test**.

# Index

## A

- as2293 7
- Auto-build Schedules (topic) 42
- Auto-configure Test Plan (topic) 43

## B

- building manager 7

## C

- configuration mode 7, 19
  - file menu 15
  - help menu 15
  - menu bar 15
  - tabs 15
  - tools menu 15
  - view menu 15
- Configuration Mode Working Procedures (topic) 30
- configure test plan 44
- Configuring DALI Interfaces (topic) 30
- contact
  - company 28, 57
  - email 28, 57
  - name 28, 57
  - notes 28, 57
  - phone number 28, 57
  - role 28, 57
- contact info 57
  - adding 28
  - editing 28
  - removing 28
- Contact Info Tab (Configuration Mode) (topic) 28
- Contact Info Tab (Run Mode) (topic) 57
- currently in use 34
- dali
  - identifying 19
  - naming 19, 36
  - rated duration 36
  - serial number 36
  - short address 36, 37
  - testing 58
- dali device status 48
- dali device type 28
- dali devices list 19
- dali interface device 7
  - configuring 30
  - discovering 34
  - finding 34
  - ip address 35
  - properties 35
  - searching 34
- DALI Interface Device Properties (topic) 35
- dali line 7, 19, 28, 50
  - identifying 30
- dali lines list 19
- DALI Lines Tab (topic) 19
- dashboard 48
- Dashboard Tab (topic) 48
- date and time display 15, 44
- definitions 7
- device presence check 7, 48
- device status
  - error 50
  - failed 50
  - ok 50
  - passed 50
- Device Status Tab (topic) 50
- devices tested in schedule 24
- dignet archive 7
- dignet license file 7
- discharge schedule 7, 24, 39
- discharge test 7, 55
  - manual 60
- discharge test notification
  - one day prior 26
  - one week prior 26
- discover 34, 36
  - dali device 43
  - dali interface device 43
- discover dali devices 19, 36
- discover dali interface devices 19, 34
- Discover DALI Interface Devices (topic) 34
- Discovering DALI Devices (topic) 36
- dongle 7
  - insert 13
  - re-insert 13

## D

- dali 7
- DALI Address Status Grid (topic) 28
- dali device 7, 28, 50
  - conflicts 37
  - discovering 19, 36
  - identify 36, 50

**E**

email  
 notification 26  
 recipient 26  
 sender 26  
 test 26  
 valid 26  
 email address 26  
 email notifications 26  
 Email Settings (topic) 26  
 email weekly failures 26  
 ethernet 34

**F**

failed dali device 60, 64  
 failure type 50  
 failures 48  
 frequency 24, 39  
 full test report 7, 56, 64  
 function schedule 24, 39  
 function test 55, 58

**G**

getting started 4  
 glossary 7  
 Glossary of Terms (topic) 7  
 go to run mode 15  
 gui 15, 44

**I**

identify 30  
 Identifying and Naming Devices (topic) 36  
 installing rapix emergency  
 end user license agreement 10  
 eula 10  
 password set up 10  
 Installing RAPIX Emergency (topic) 10  
 introduction 4  
 Introduction (topic) 4  
 ip address 7, 30, 34  
 setting 35  
 it support 30

**L**

license  
 import 13  
 license dongle 13  
 license file 13  
 local area network 30

**M**

maintenance password 7, 42  
 manual discharge test 55, 60  
 manual function test 58  
 manual test 50

**N**

next run 24, 39

**O**

ok 34

**P**

password  
 change 42  
 Password Management (topic) 42  
 pdf 56, 64  
 pie chart 48  
 port number 26  
 Programming Short Addresses (topic) 37

**R**

recipient  
 adding 26  
 editing 26  
 removing 26  
 relay host 26  
 repair report 7, 56, 64  
 report 64  
 restriction 42  
 Run a Manual Function Test (topic) 58  
 run mode 7, 44  
 file menu 44  
 help menu 44  
 menu bar 44

- run mode 7, 44
  - tabs 44
  - view menu 44
- Run Mode Working Procedures (topic) 58
- Running RAPIX Emergency (topic) 11

## S

- scan 28
- scan every
  - 1 minute 28
  - 10 seconds 28
  - 20 seconds 28
  - manual 28
- scheduled test
  - aborting 55, 64
  - adding 24, 39
  - auto build 42
  - creating 42
  - discharge 24
  - function 24
  - generating 42
  - naming 24
  - removing 24, 55
  - searching 24, 55
  - stopping 55, 64
  - type 24
- scheduled tests 43
- Scheduled Tests Tab (Configuration Mode) (topic) 24
- Scheduled Tests Tab (Run Mode) (topic) 55
- Scheduling a Manual Discharge Test (topic) 60
- search 50
  - dali device 19
  - dali line 19
- sender 26
- set static ip address 30, 35
- Set Up Licensing (topic) 13
- Setting Static IP Addresses (topic) 35
- Setting Up Schedules (topic) 39
- short address 7
  - changing 37
  - conflict 37
  - device type 28
  - emergency 28
  - free 28
  - non-emergency 28
  - occupied 28
  - programming 37
  - requested 37
  - setting 37
  - swapping 37

- start menu 11
- Stopping Active Schedules (topic) 64
- subnet 30
- supervisor password 7, 42
- system requirements
  - free space 9
  - hard disk 9
  - memory 9
  - operating system 9
  - pdf 9
  - ports 9
  - processor 9
- System Requirements (topic) 9

## T

- tabs 15, 44
- test email 26
- test group 7, 39
  - configuring 19
- test plan 7
  - auto-configure 43
  - configuring 15, 43
  - monitoring 44
  - running 44
- test report 7, 64
  - viewing 56
- Test Reports (topic) 64
- Test Reports Tab (topic) 56
- test result 64
- test summary 64

## U

- ui 15, 44
- unreachable 34, 35
- upcoming schedules 48
- user interface 15, 44
- User Interface (Configuration Mode) (topic) 15
- User Interface (Run Mode) (topic) 44

## W

- welcome screen 13
- widget
  - dali device status 48
  - device presence 48
  - upcoming schedules 48
- words 7

