one LUX

ONE CONNECT

Configure | Connect | Communicate

Introduction

One-CONNECT: a comprehensive DALI based scalable emergency lighting test system.

One-CONNECT is a flexible, powerful and user friendly emergency lighting test and reporting system which allows the user to view, print and email test reports, all from a touchscreen panel. Faults are easily identified and maintenance of the system complies with the latest emergency lighting regulations.

One-CONNECT's intuitive graphical user interface and commissioning tool provides an intelligent yet surprisingly simple way to configure, connect and communicate the real time status of each device or the system as a whole.

System Architecture
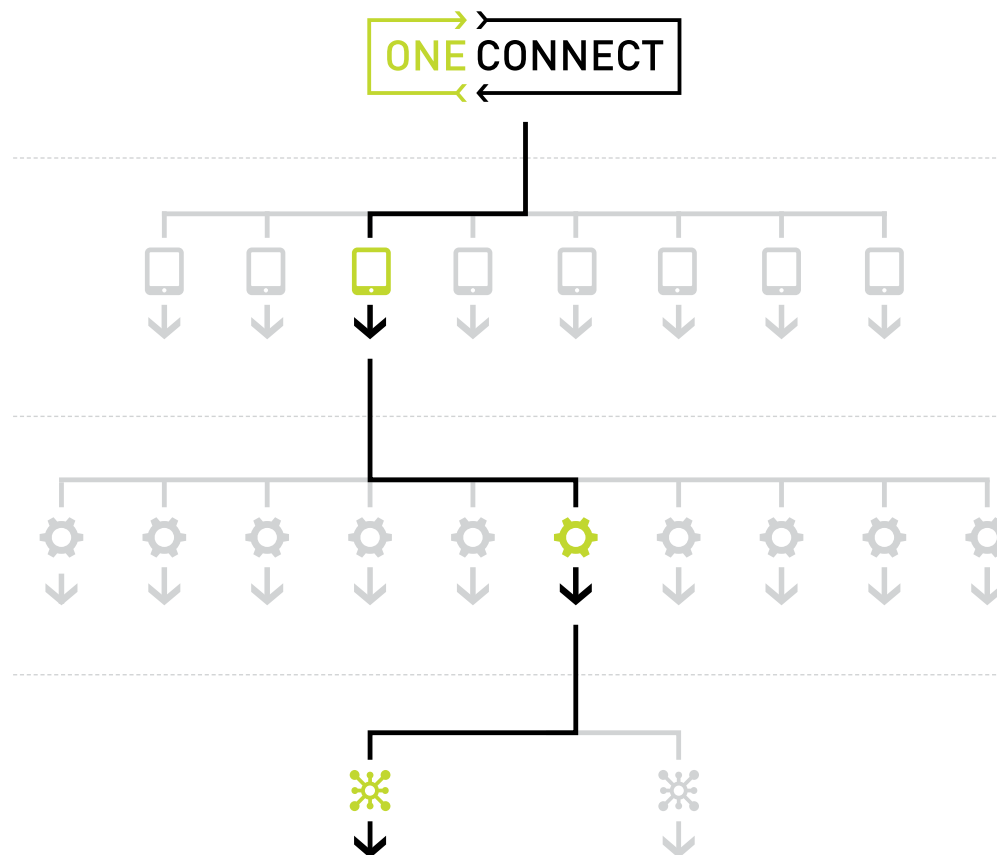
One-CONNECT has full scope to accommodate up to 10,240 DALI Emergency devices.

One-CONNECT can comprise of up to 8 touch screen panels networked together.
Each touch screen panel has the capacity to connect with up to 1,280 DALI emergency devices.

A single One-CONNECT touch screen can support up to 10 DALI emergency hubs.
Each DALI emergency hub has the capability to communicate with up to 128 DALI emergency devices.

Each One-CONNECT DALI hub operates over two separate DALI field networks.
Up to 64 DALI devices can sit on each DALI field network at any one time.

System Topology

One-CONNECT utilises global standard Ethernet TCP/IP network connections empowering the user to create a completely separate, fully private network, using the existing IT framework.

The use of TCP/IP connections enables the user to take full advantage of standard network technologies (i.e. data switches and WiFi) providing more reliable and dependable data transmission when compared to equivalent UDP/IP connections. All devices are compliant with network addressing protocol.

By adopting the universal standard of Ethernet, One-CONNECT allows the creation of bespoke networks that can be adapted to suit the requirements of each specific project or application. With such a wide range of Ethernet networking tools and resources available, the user is able to create a simple private network where all devices can

communicate, or a more complex network where all traffic can be managed with the capability to create redundant links if there is a primary connection failure.

One-CONNECT DALI hubs are normally operated separately or may be linked in a network to create a complete system for central monitoring.

Launch Screen
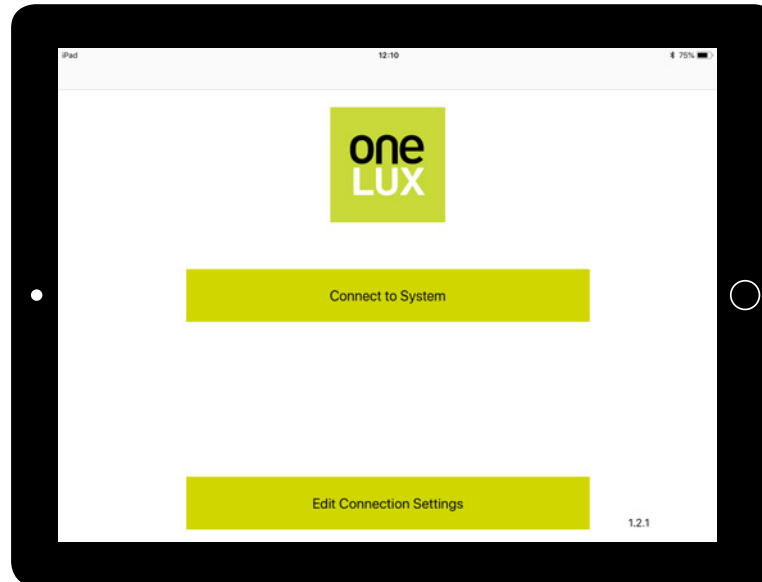
Open the One-CONNECT application to arrive on the Launch Screen. You have a choice to either:

- **Connect to System** - clicking this will connect the One-CONNECT application to all its relevant DALI Hubs it has assigned to it

- **Edit Connection Settings** - clicking this will launch a separate page where you can allocate IP addresses to hubs, and change the name of the touchscreen panel
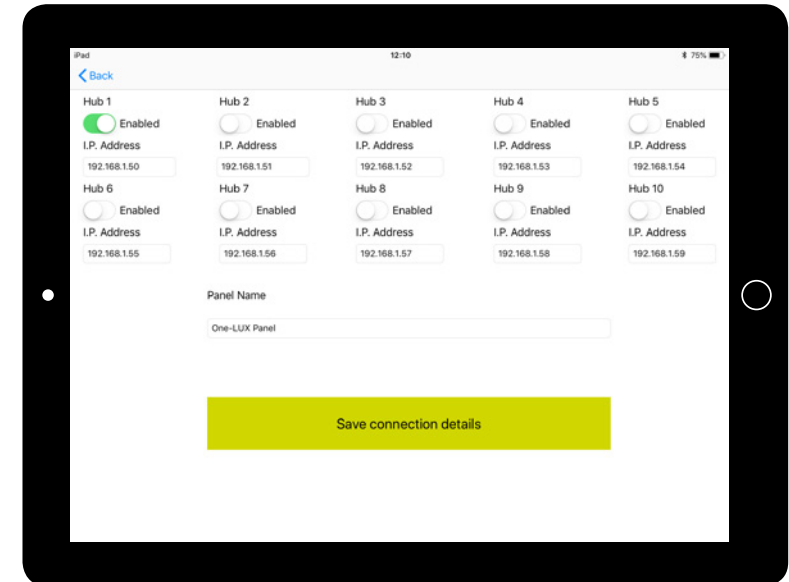
One-CONNECT communicates via WiFi or a physical Ethernet connection. If using WiFi then use *'Edit Connection Settings'* to configure the system, entering the relevant IP addresses for each DALI Hub.

Once complete, return to the Launch Screen to *'Connect to System'* and gain full access to your One-CONNECT system.

Guided Access
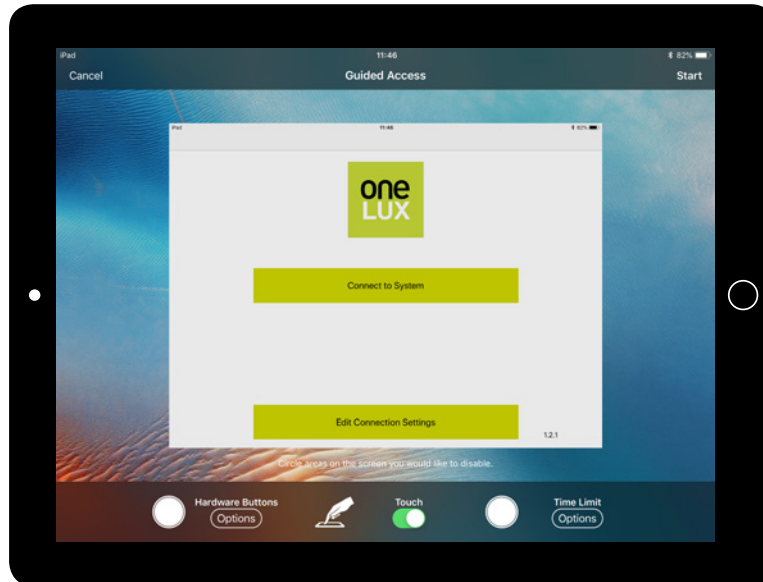
Keep the One-CONNECT system completely secure by activating Guided Access; this ensures that the only access available on the touch screen is the system and its framework.

- Once you have launched the app, triple-click on the '*Home*' button

- Click the '*Start*' button in the top right hand corner of the screen to activate Guided Access

- This will then deactivate the iPad's '*Home*' button so that the app will remain accessible

More information about Guided Access restrictions can be found by clicking below.

Status Page

The Status page provides a general overview of the system, including the operational status of each DALI Hub and Bus present and offers a central navigation point for the whole system.

The Status page provides a simple overview of how the system is operating and whether there are any faults requiring correction. Each DALI Hub has its own status box, with examples as follows:
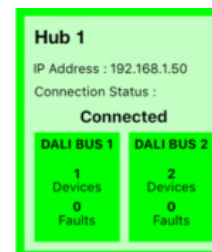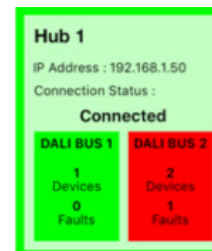

CONNECTIVITY
The DALI Hub is connected to One-CONNECT.

DEVICE OPERATION
All devices using this Hub are working correctly and zero faults have been found.

CONNECTIVITY
The DALI Hub is connected to One-CONNECT.

DEVICE OPERATION
A device fault is present in DALI Bus 2 and no faults have been found in DALI Bus 1.

CONNECTIVITY
The DALI Hub is current not connected to One-CONNECT.

DEVICE OPERATION
Devices in both DALI Bus 1 and 2 have faults.

Hub Details

By clicking on one of the status boxes on the Status page, more information related to the associated DALI Hub and the 2 DALI Buses in operation is visible, including:

- Operating Status

- DALI Current of the Bus (mA)

- Breakdown of Devices residing on the Bus
  – Type 1 (Emergency) and others

DALI Bus boxes adopt a status colour code of **green** 'normal' or **red** when there is a fault found.

Autoheal

The option to enable 'Autoheal' for each DALI Bus offers the capability to replace a single failed DALI emergency device without the need for reprogramming the network. The system is able to recognise a missing DALI device and will 'heal' automatically once replaced.

Device Indentification

In order to classify all DALI devices on each DALI Bus you can *'Identify All Bus * Devices'*, triggering the LED indicators of the respective emergency devices to flash **red** and **green**, providing time to establish all devices on that DALI Bus.

Viewing and Editing Devices

To view and edit individual devices on each DALI Bus you can click *'Edit Bus * Devices'* to launch a new screen.

View and Edit Devices

Bus Device Screen

The Bus Device screen lists all DALI emergency devices operating on that DALI Bus. The scrolling table offers some basic information on each device including:

- Device Name
- Drawing Reference
- DALI Status
- Emergency Status
- Current Battery Charge

An icon next to each device will either be a green tick or a red cross to indicate if there is any fault with the device.
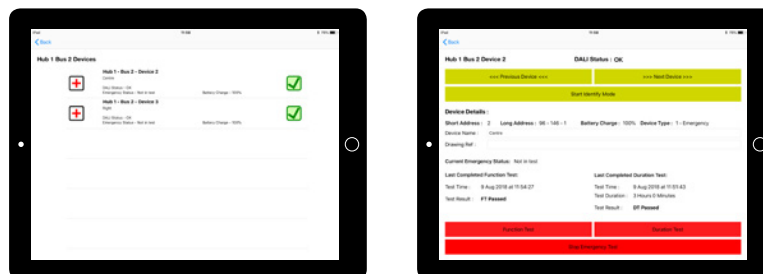
See next page for larger version

Edit Device Page

By clicking on a device on the Bus Device screen, an Edit Device page opens and from here you can check the:

- Date/Time of Last Function Test
- Result of Last Function Test
- Date/Time of Last Duration Test
- Result of Last Duration Test

This page also allows space to input the device name and drawing reference.

Device Controls

Select the *'Previous Device'* or *'Next Devices'* buttons to navigate through the devices on the DALI Bus. The *'Start Identify Mode'* button will result in the devices LED indicator flashing red and green.

Emergency Controls

These emergency controls enable triggering of a *'Function Test'* or *'Duration Test'* on the devices by using the associated buttons. Stop all emergency testing on the device by using the *'Stop Emergency Test'* button.

Add a New Device
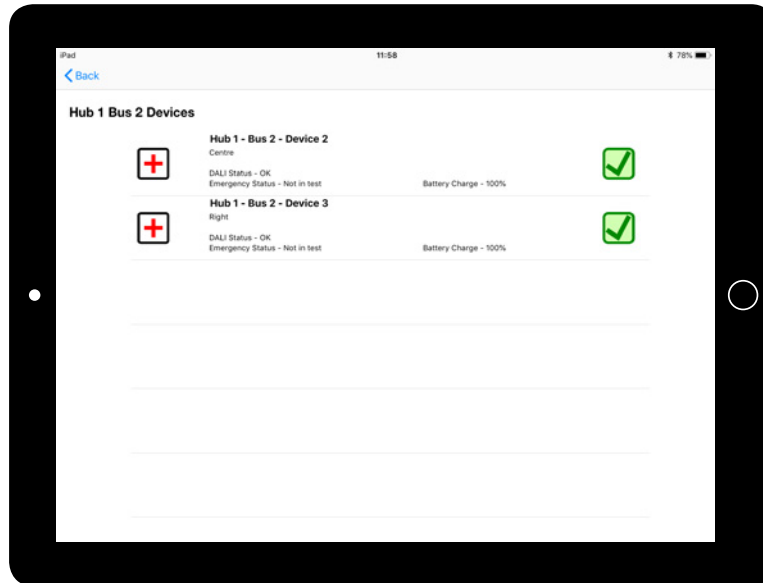
When a new DALI emergency device is added to One-CONNECT, intuitive technology will automatically detect the new device and add it to the network. The DALI Hub containing the new device will allocate the next available short address and add the device to the system database.
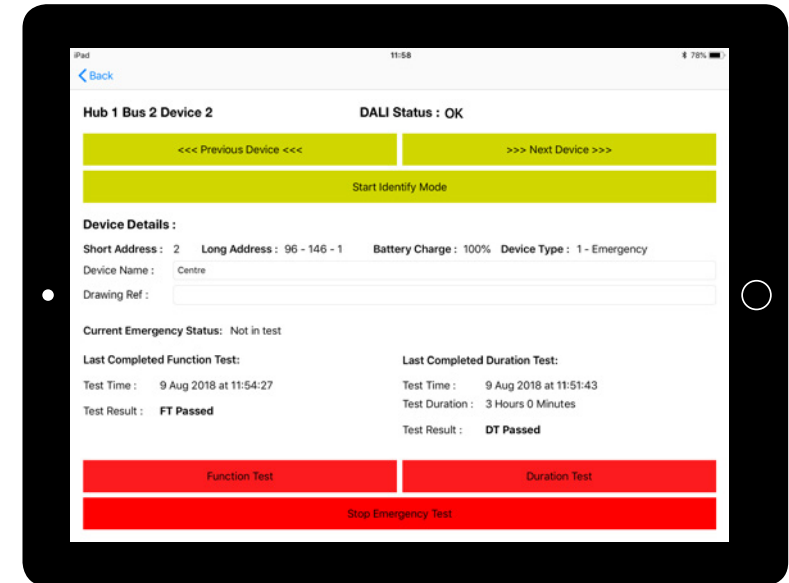
The next step is to identify and label the device. Please note that the edit function may take up to 15 minutes when powering up new devices. Follow the same process as View and Edit Devices to identify the device and edit it to ensure all relevant details are completed.
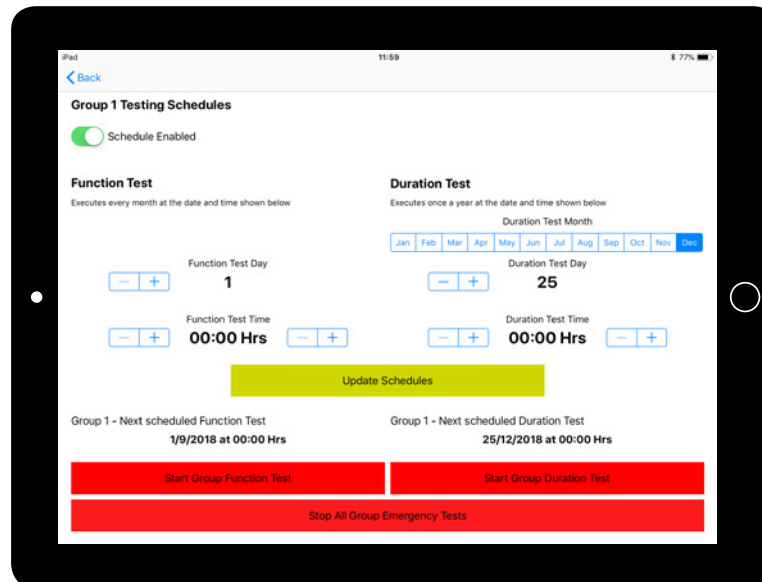
Creating Testing Groups

When selecting **‘Manage Emergency Testing’** on the Status page, a page opens allowing the user to allocate devices to one of sixteen testing groups.

- Identify the testing group you wish to locate your device by using the numbered bar along the top of the screen

- To move a device in or out of the testing group, select the device and use the allocation controls in the centre of the screen; each arrow button will move the device in or out of the testing group

Group Testing Schedules

Once you have created all required testing groups, select **'Manage Group Testing Schedule'**; this will open a screen which enables the setting and amending of emergency testing.

- **Manual Testing** – to initiate a manual emergency test off all devices in the group, select one of the three group testing control buttons shown at the bottom of the screen

- **Testing Scheduling** – when setting a test schedule on an emergency testing group, first ensure that 'Schedule Enabled' is activated by sliding the check box at the top left of the screen

- **Function Testing** – use the +/- buttons on the left hand side to select a monthly date (1st to 28th) for testing of group devices

- **Duration Testing** – use the month selection bar and the +/- buttons on the right hand side to select an annual date and time in which a duration test will be carried out on group devices

To ensure your testing schedule has been save and implemented, click '**Update Schedules**' whenever an amendment is made.
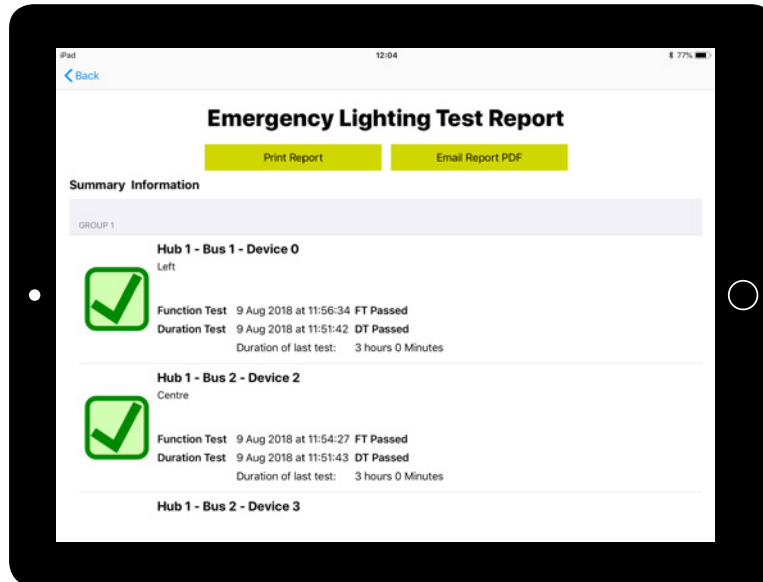
Generating Reports

Use the **‘View and Print Results’** button on the Status page to launch the Emergency Testing Report screen. This screen allows criteria to be set so the report shows only information that is required. The parameters shown below can be set:

- **Groups** – all devices, testing groups or ungrouped devices

- **Test Type** – only function tests, only duration tests or both

- **Report Type** – full report or failures only

- **History** – show results from latest tests only, or all tests carried out

Once the filters have been selected then click **‘Generate Report’** to create a customised report that meets the parameters set.

Alternatively, to generate a complete system report, regardless of the filter options set, then select **‘Full System Report’.**

Emailing and Printing Reports

Once the required report has been generated the Emergency Lighting Test Report page will launch allowing the report to be viewed via a scrolling table. This page provides two options to either *'Print Report'* or *'Email Report PDF'*.

Emailing Reports

Selecting *'Email Report PDF'* will automatically send a copy of the report to the default email account set up on the iPad. For help setting up an email account on iPad, please click below.

Printing Reports

Selecting *'Print Report'* will open a dialogue box allowing the option to pick the number of copies and the relevant AirPrint printer. For help setting up an Apple AirPrint printer, please click below.
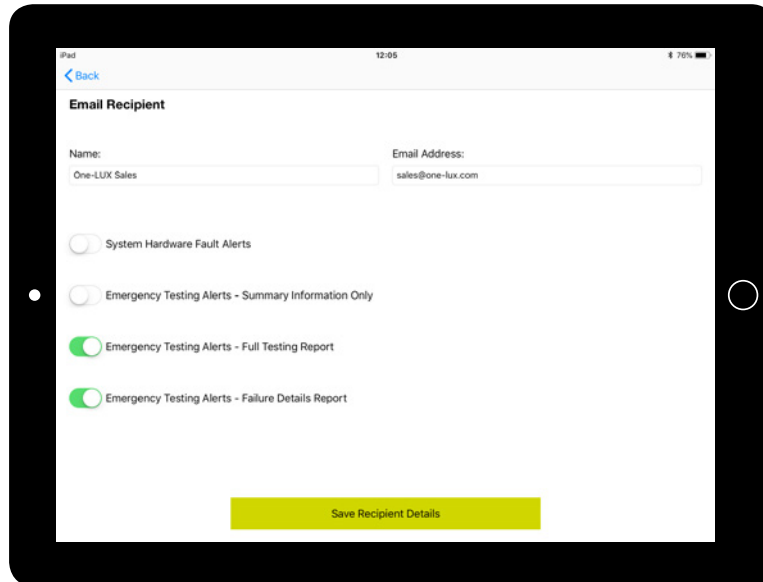
Manage Automated Email
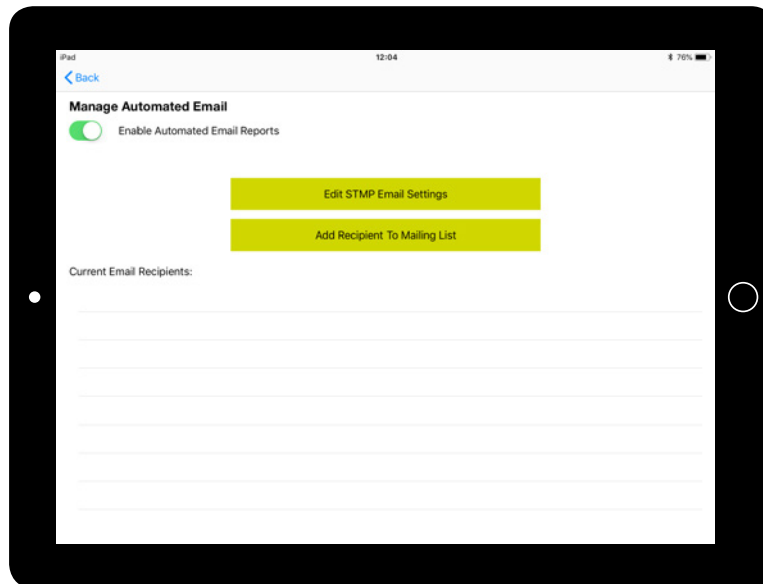
Select *'Manage Automated Email'* on the Status page to launch the Manage Automated Email page.

1) Slide the checkbox in the top left corner of this page to *'Enable Automated Email Reports'*

2) Set up this functionality by selecting *'Edit STMP Email Settings'*

3) Complete the STMP Email Setting form including User Name, Password, Host Name and Port number of the STMP email server being used

4) Select a Connection Type from the scrolling list to elect the encryption settings to be imposed:

   - **Clear** – no encryption

   - **Start TLS** – upgrades existing connection to TLS encryption

   - **TLS** – applies full TLS encryption

5) Verify these details by entering an email address and clicking *'Send Test Email'*

6) Finally ensure that you *'Save STMP Email Settings'* – continue to do this whenever the settings are updated

Adding Email Recipients

You can add a recipient to receive automated emails by selecting **'Add Recipient to Mailing List'**. The Email Recipient page will launch and allow you to input the name and email address of the recipient, and select the email/report(s) that the recipient is to receive:

- **System Hardware Fault Alerts** – report is emailed when any hubs, buses or devices develop a hardware or connection fault

- **Emergency Testing Alerts (Summary Information Only)** – report is emailed displaying details of completed tests and a summary count of passed and failed devices

- **Emergency Testing Alerts (Full Testing Report)** – report is emailed detailing every device that has been tested and the results for each device

- **Emergency Testing Alerts (Failure Details Report)** – report is emailed only displaying details of test failures on the system

Once recipients have been inputted then they will display in a scrolling list at the bottom of the Manage Automated Email page. You can click on each recipient in this list to amend any details or to delete them.

System Panels and Screen Savers
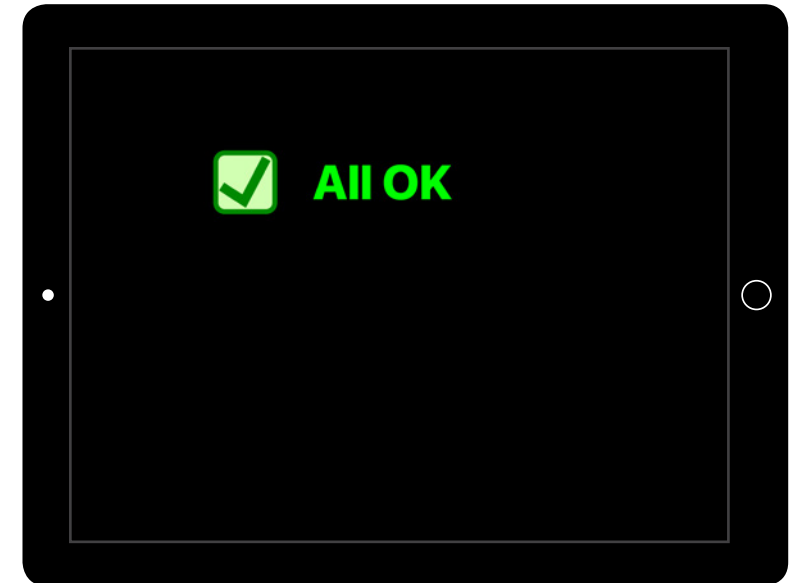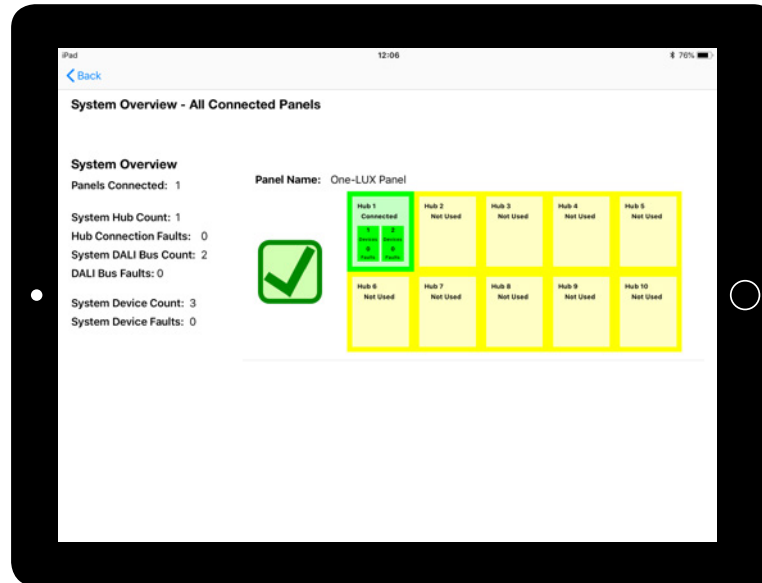
Use the **'View All System Panels'** button on the Status page to launch the System Overview page, providing details of all panels connected. This provides a useful tool for larger projects/sites that have multiple touchscreen panels networked together. The scrolling list displays a breakdown of each panel, displaying:

- Panel Name
- Overview of Operation
- Status Icon
- Details of Hub, Bus and Device Numbers

Please note that the One-CONNECT touchscreen panal is pre-programmed to go into standby mode, displaying a screensaver and dimming the brightness of the screen down as low as possible.

The two different screensavers displayed will simply say **'All OK'** with a **green** tick icon or **'Fault(s) Found'** with a **red** cross icon. This shows you a very simple status overview of how the system is operating and if there are any issues that need to be addressed.

Support

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