

Introduction

This Application Note describes the process for replacing a failed DALI output unit (Control Gear: Luminaire or Lamp driver) in a RAPIX Lighting Control System.

The process of replacing a failed DALI output unit consists of the following steps:

- A. Locating the failed unit;
- B. Replacing the failed unit;
- C. Giving the new unit a Short Address; and then
- D. Configuring the new unit (i.e. setting min/max values, groups, scenes etc.)

The Rapix Zone Controller has a feature that greatly simplifies steps 1, 3 and 4. This allows an electrician with no knowledge of the site, DALI or the Rapix Lighting Control System to replace a failed output unit.

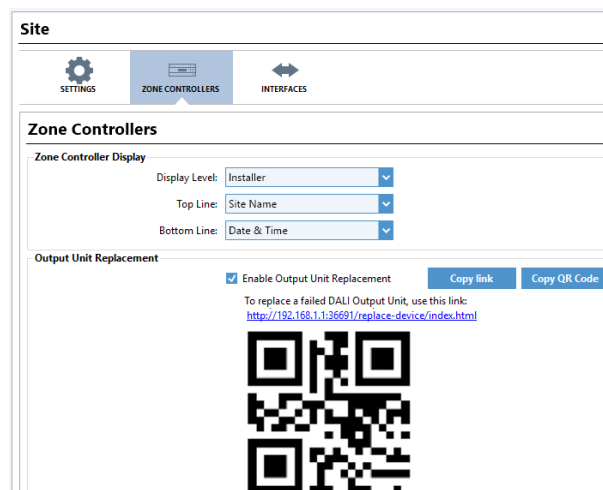
Preparation

The electrician replacing a failed unit may not be familiar with the site.

To assist with locating failed units, it is important to name the Zone Controllers, DALI lines and units with accurate and descriptive names. For example, it will be much easier for someone to locate a failed unit called “Floor 2 / East / Meeting Room” than if it was called “Switch Board 7 / Line 2 / Unit 7”.

It is also helpful to provide annotated floor plans that show the location of Zone Controllers, their DALI lines and the short addresses of the output units. This greatly simplifies the process of locating failed units.

To enable the output unit replacement feature, select the “**Enable output unit replacement**” option on the **Zone Controllers** tab in Rapix Integrator, and then transfer the project to the Zone Controllers.



The Zone Controllers tab

The URL used for the output unit replacement process can be copied by clicking on the **Copy Link** button. A QR code which encodes the same URL can be copied by clicking on the **Copy QR Code** button. The link and/or QR code should be provided to the building manager, or printed and displayed in a suitable location.

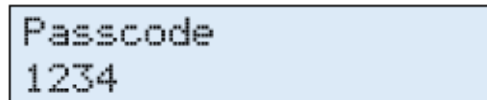
Unit Replacement Process

The Output Unit Replacement web page should be opened before commencing the replacement of failed units. If the step-by-step instructions are followed, the process is simple and fast.

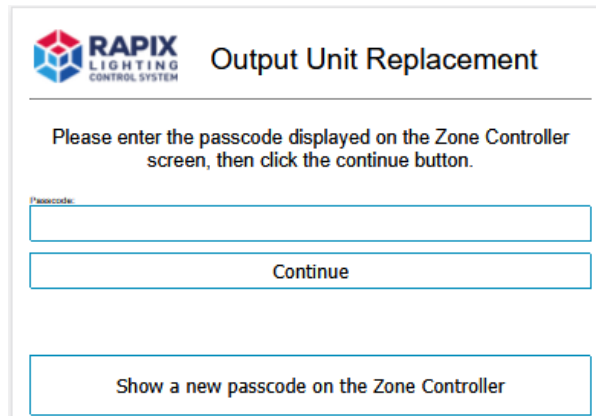
Step 1 – Login

The web browser used (e.g. on a mobile phone) needs to be on the same Ethernet subnet as the Zone Controller. Open the Output Unit Replacement web page using the link or the QR code.

When the Output Unit Replacement web page is opened, the Zone Controllers will display a random passcode on their LCD for one minute. If the passcode is not being displayed, click on the **Show a new passcode of the Zone Controller** button. Enter the passcode value in the **Passcode** box on the web page and click on the **Continue** button.




Zone Controller LCD showing the passcode

A screenshot of a web page titled "Output Unit Replacement". At the top left is the RAPIX logo (a red and blue cube) and the text "RAPIX LIGHTING CONTROL SYSTEM". To the right of the logo is the title "Output Unit Replacement". Below the title is a horizontal line. Under the line, the text reads: "Please enter the passcode displayed on the Zone Controller screen, then click the continue button." Below this text is a text input field with the label "Passcode:" to its left. Below the input field is a button labeled "Continue". At the bottom of the page is another button labeled "Show a new passcode on the Zone Controller".

The login web page

Step 2 – Select the Failed Unit

A list of failed units will be displayed. Click on the **Unit Name** of the first unit that is to be replaced.




Output Unit Replacement

Please select a unit to replace

Unit	Unit Name	Unit Type	Failure Type
Floor 1/L1 West/13	Lobby	LED	Missing
Floor 1/L1 West/32	Corridor	LED	Lamp Failure
Floor 1/L2 East/56	Exit	Emergency	Battery Failure

The list of failed units

The details of the selected unit will be displayed:



Output Unit Replacement

Please replace the selected unit, then click on the button below

Zone Controller	Floor 1
DALI Line	L1 West
Address	13
Unit Name	Lobby
Unit Type	LED
Failure Type	Unit missing or not communicating

The selected unit details

Step 3 – Physically Locate the Failed Unit

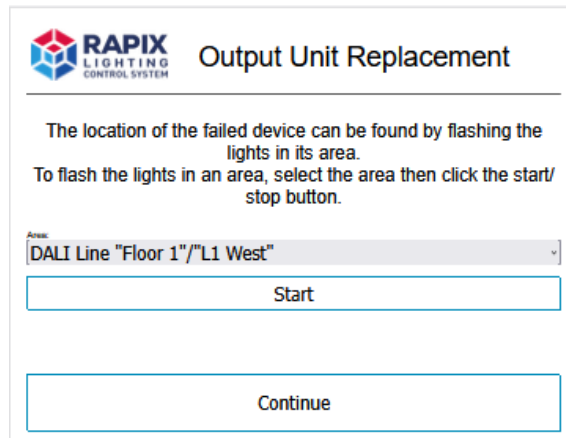
If the location of the unit is not known, click on the **Find unit location** button.

A drop-down list of the areas containing the unit will be shown.

Select one of the areas, then click on the **Start** button. The selected area will flash every 2 seconds, allowing it to be located.

The failed unit will most likely not be flashing.

When the selected area has been located, click on the **Stop** button to stop the flashing, then the **Continue** button to return to the previous page.



RAPIX LIGHTING CONTROL SYSTEM

Output Unit Replacement

The location of the failed device can be found by flashing the lights in its area.
To flash the lights in an area, select the area then click the start/stop button.

Area:
DALI Line "Floor 1"/"L1 West"

Start

Continue

The web page allowing a failed unit to be located.

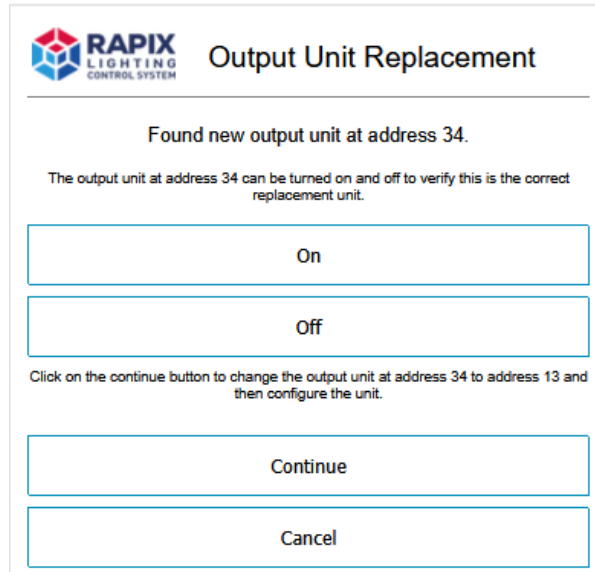
Step 4 – Replace the Failed Unit

When the failed unit has been physically located, it can be replaced with a new unit.

When the old unit has been removed and the new unit has been fitted and connected, click the **Unit has been replaced** button.

Step 5 – Configure the New Unit

The new unit should have been found and assigned a temporary short address, which will be shown.



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CONTROL SYSTEM

Output Unit Replacement

Found new output unit at address 34.

The output unit at address 34 can be turned on and off to verify this is the correct replacement unit.

On

Off

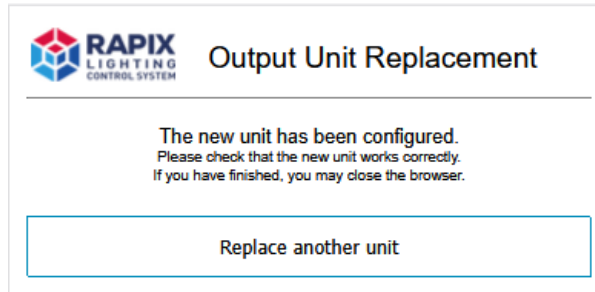
Click on the continue button to change the output unit at address 34 to address 13 and then configure the unit.

Continue

Cancel

The newly found unit

To check that this is the correct unit, it can be switched on and off by pressing the **On** and **Off** buttons. If this is all correct, click on the **Continue** button. The new unit will be automatically configured. When complete, the “finished” page will be displayed.



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Output Unit Replacement

The new unit has been configured.
Please check that the new unit works correctly.
If you have finished, you may close the browser.

Replace another unit

The “finished” Page

If another unit needs to be replaced, click on the **Replace another unit** button, and repeat the process from step 2.

Change History

Rev	Date	Updated By	Comment
1	18 Mar 2025	DS	First Release

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