



Push Controls

Module: Clipsal SILC

Version 1.1

www.pushcontrols.com

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Version History

Version No.	Date	Description
1.0		Initial release
1.1	06/10/2016	Add Gen IV theme guidelines

Step 1: Getting Started – Setting Up Your Hardware

This document assumes you have read through the Push Clipsal SILC Bridge (PCSB) documentation (HowTo_PCSB) and followed the setup/configuration procedures contained within the document. If you have *not* read the HowTo_PCSB document please read it before proceeding to read and follow the steps outlined in this document.

The hardware setup for controlling Clipsal SILC through Push is as simple as connecting the PCSB and Push controller on the network. NOTE: Clipsal SILC functions within macros are only supported on PC1 and PC2 controllers **not** PC4s.

Step 2: Setting Up Your Project – Configuring the Push Controller

This documentation assumes you already have a Push controller (PC1/PC2/PC4) already within your project. Due to the nature of the Clipsal SILC module there is no special configuration of the controller required, all configuration necessary is contained within Step 4: Configuring the Clipsal SILC Module.

Step 3: Setting Up Your Project – Importing the Clipsal SILC Module

Import the Clipsal SILC module by completing the following actions:

- Right click on 'PROJECT' at the top of the tree and select 'Import Module'. *Refer to Figure 1*
- Locate and select 'Clipsal_SILC_X.pemod' (where X is the current version number)

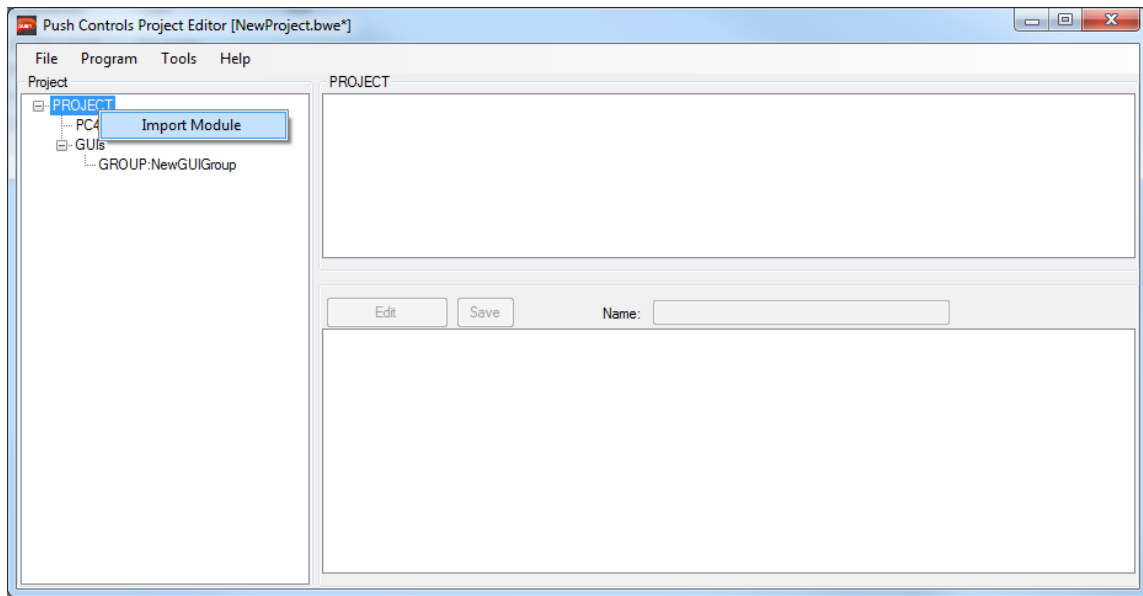


Figure 1 – Right click on PROJECT, inside the project tree, to import a module.

The selected module will now appear in the module browser window (See Figure 2), where you can see everything that is included in the module.

Note: A GUI group must be available in the GUI's section of the Project Editor, in order to import the Clipsal SILC module.

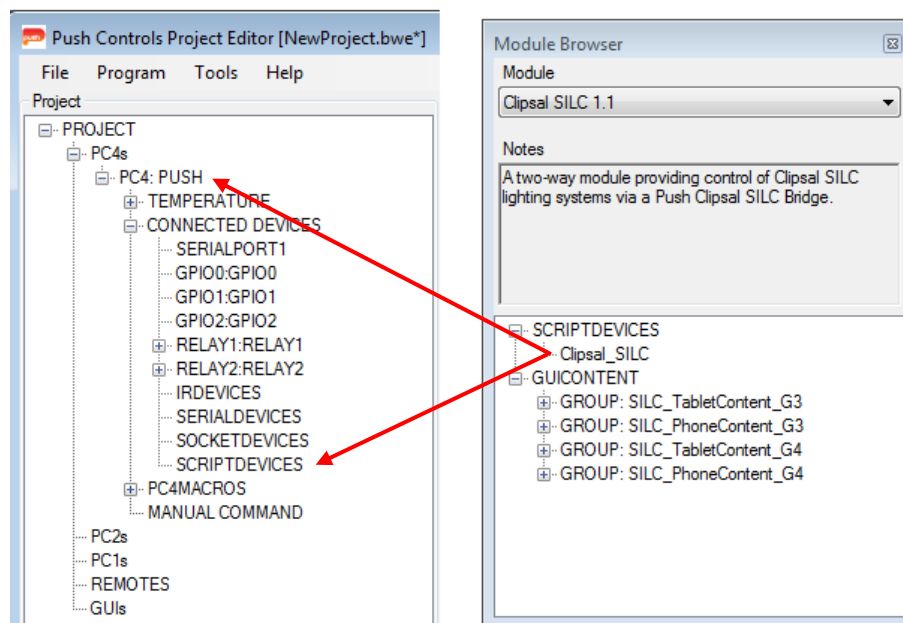


Figure 2 – Dragging and dropping scripts from the Module Browser window

Step 4: Configuring the Clipsal SILC Module

To successfully connect and control the Clipsal SILC system you need to select the protocol type and enter the IP address and port number address of the Push Clipsal SILC Bridge. To do so complete the following steps:

- Open the properties of the Clipsal SILC script device, by right clicking on the Clipsal SILC script device and selecting 'Properties'

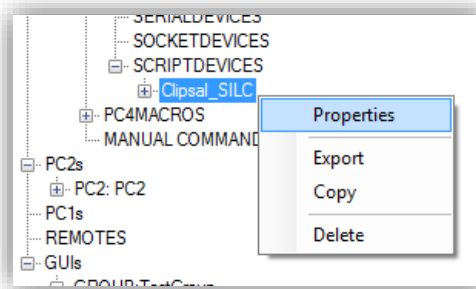
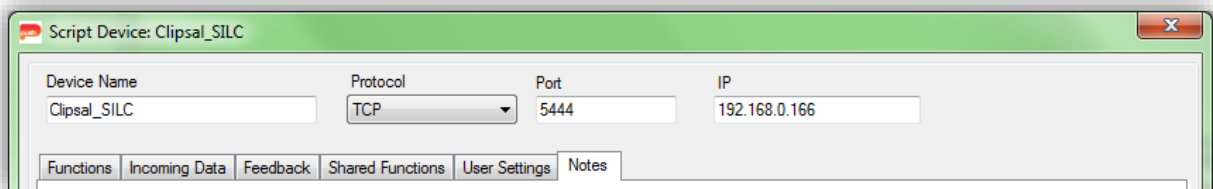
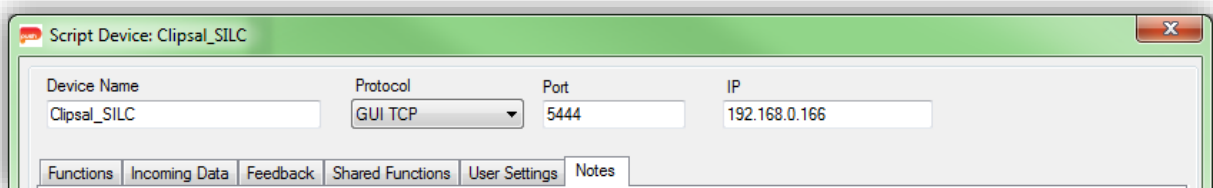


Figure 3 - Properties of the Clipsal SILC script device

- Click on the dropdown box and select the protocol as follows depending on the controller being used:
 - For PC1 and PC2 controllers select TCP



- For PC4 controllers select GUI TCP
 - NOTE: When using a **PC4 controller** the connection to the PCSB is directly from the smart device (iPad, Android tablet etc), hence **Clipsal SILC commands are not supported from within macros**. Instead the command you wish to trigger as a part of the macro has to be included as a scene or action on button release.



- Enter 5444 as the port number for control.
- Enter the IP address of the PCSB into the IP field (refer to the PCSB how to document on details for discovery and configuration of the PCSB IP address).

- Click OK to save the changes made to the script device properties.

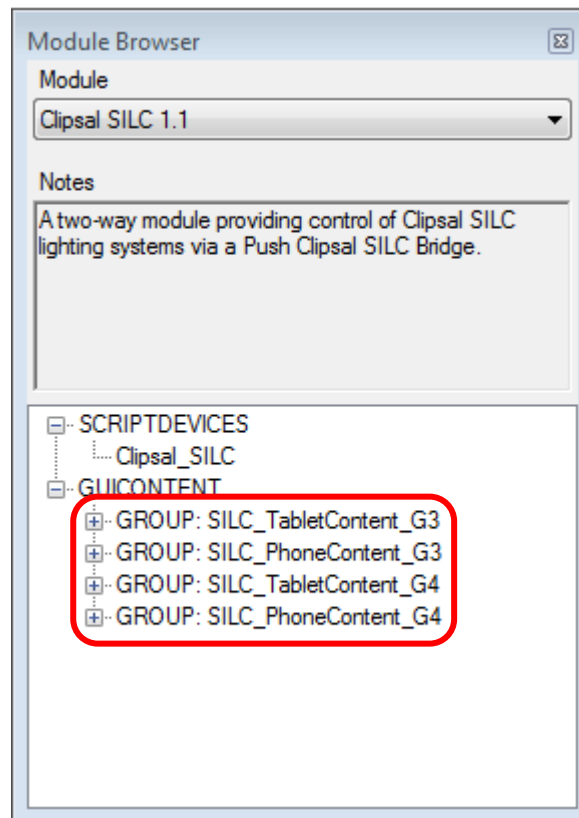
Step 5: Using Clipsal SILC Module GUI components

GUI Themes

Themes Available

The Clipsal SILC module contains Gen IV and Gen III themes, each theme is grouped into a GUI Group as follows:

1. **SILC_TabletContent_G4**: contains GUI components and panel components with Gen IV theme for iPad/tablets
2. **SILC_PhoneContent_G4**: contains GUI components and panel components with Gen IV theme for iPhone 5/6/6+ and phones with an aspect ratio close to 16:9
3. **SILC_TabletContent_G3**: contains GUI components and panel components with Gen III theme for iPad/tablets
4. **SILC_PhoneContent_G3**: contains GUI components and panel components with Gen III theme for iPhone 5/6/6+ and phones with an aspect ratio close to 16:9



Traditional Component and Dynamic Interface

All GUI groups contain two methods of implementing an interface that controls a Clipsal SILC system. There are the traditional individual lighting components whereby dragging and dropping a Switch-Dim-Horizontal component for example will control one switch group, and there are panel components that will dynamically populate the panel with lighting components for all zones (AllZonePanel GUI components) or only those for a specific zone (ZonePanel GUI components). The latter zone panels use the zone information specified within the PCSB configuration page, see [HowTo_PCSB](#) document for details on configuring zones.

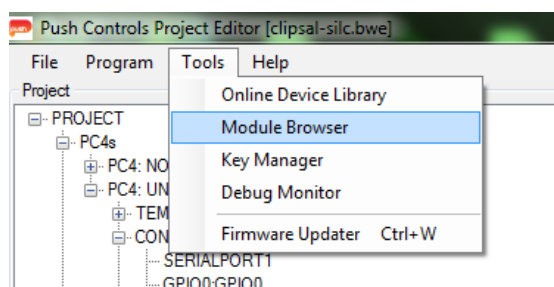
In a single project you can choose to incorporate both method of programming.

The following sections outline an example of importing each component type into a portrait tablet interface, the process for importing components into other interfaces is identical for other interface types.

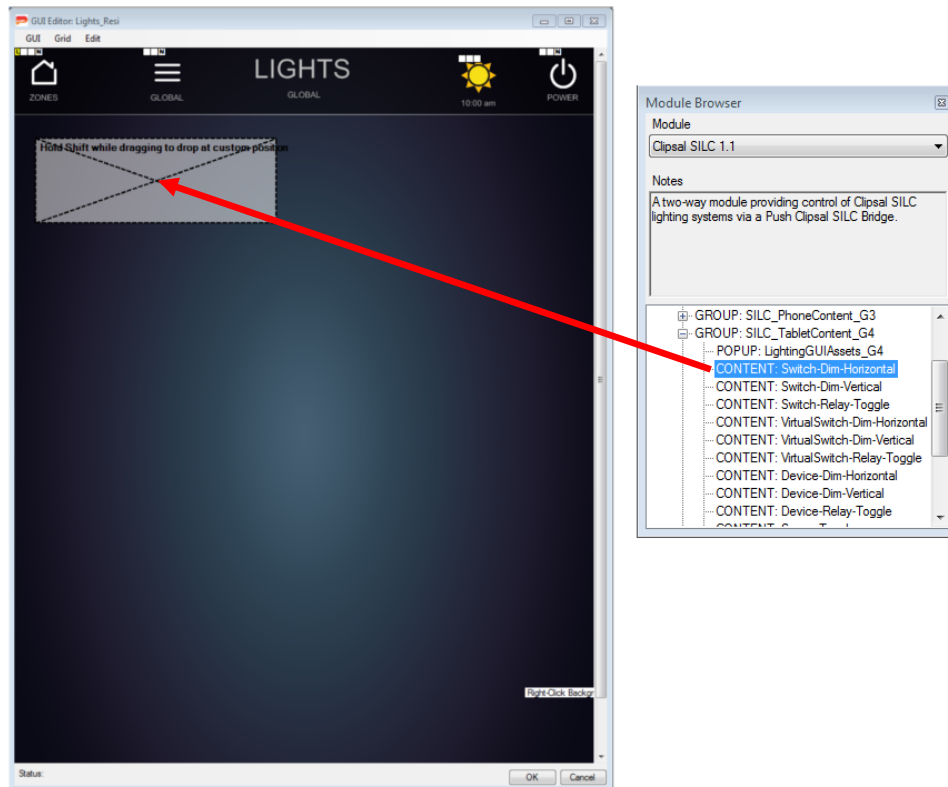
Programming a Clipsal SILC traditional GUI lighting component

When working with the Clipsal SILC module we refer to all GUI content, except for those containing the word panel, as “traditional GUI lighting components”. In this section we will walk through importing the Switch-Dim-Horizontal component from within the SILC_TabletContent_G4 group and be programming the element to control the switch with ID 1. To import other traditional lighting components follow the same steps below ensuring that you choose the correct IDs from within the PCSB configuration pages when entering them as you import each component.

1. To import any GUI content from the Clipsal SILC module you need to open the Module Browser by clicking on Tools -> Module Browser within the Push Project Editor.



2. Expand the GUICONTENT -> GROUP: SILC_TabletContent_G4
3. Open the GUI page you wish to import the Switch-Dim-Horizontal component (this will be the same for all other traditional components, or other GUI pages)
4. Left click on the Switch-Dim-Horizontal component and drag the component onto the open GUI page
 - a. Note you will notice the interface element snaps to the top left corner of the page to absolutely position the element, hold down shift whilst dragging the mouse around within the open page.



5. Once the mouse button is released a dialog box will open asking for parameters to be provided (Figure 4). In the case of the Switch-Dim-Horizontal element the following data is required:
 - a. Clipsal SILC Component ID: The ID of the Clipsal SILC device you wish to control, this can be found in the component tab, of the component type you are importing (in this example a switch component is being programmed), in the Push Clipsal SILC Bridge (PCSB) configuration page (see Figure 5)
 - b. Clipsal SILC Component Name: The name you wish to appear on the label of the element you are importing into the Push interface. Note this label **will not** update based on any changes to component names within the Clipsal SILC application.

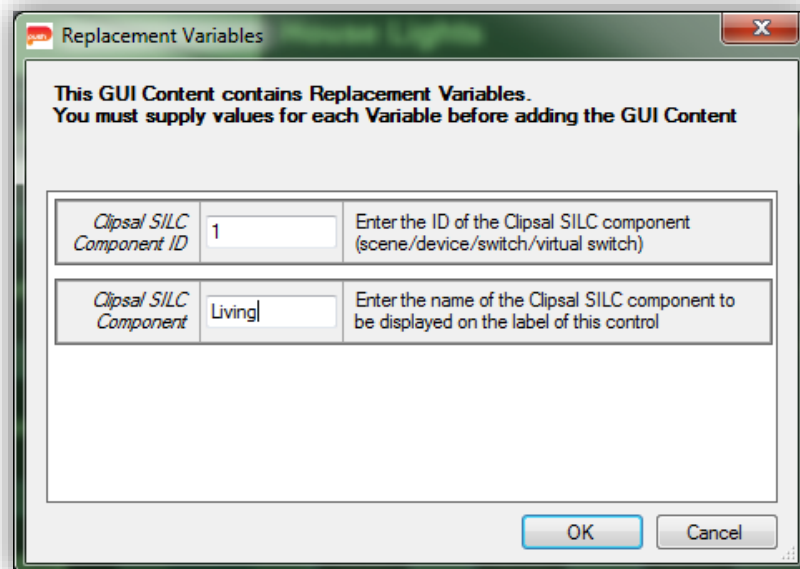


Figure 4 - GUI Content parameter dialog box

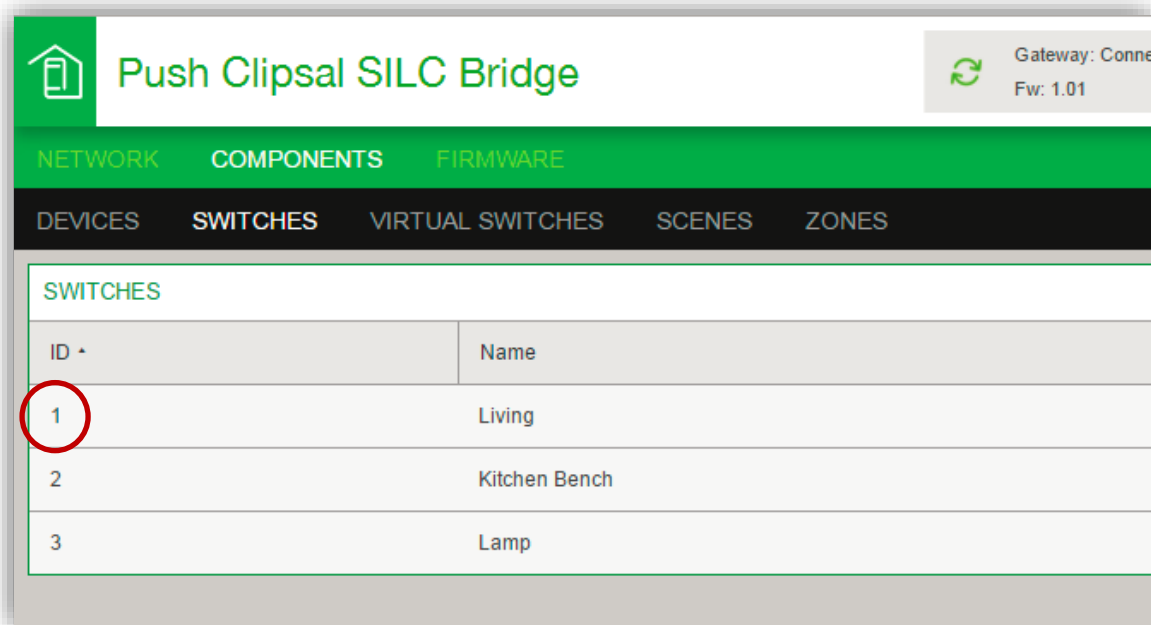


Figure 5 - Highlighting the switch ID required to integrate with a Clipsal SILC switch into Push, accessible under COMPONENTS -> SWITCHES tab

Programming Clipsal SILC Zone Panels

The Clipsal SILC module provides a Push first dynamic lighting interface that allows you to quickly integrate control of the full lighting system into the Push interface. There are two types of placeholder panels that can be used:

1. AllZones panel variations include control components for all zones that have been setup within the PCSB zone configuration page, split up by zone and components within the zone split between scene control and lighting component control.

2. Zone panel variations will only show lighting components that have are included within the zone specified when importing the panel. The components within the zone are those added within the PCSB zone configuration page.

To import each variety follow the steps below, which walkthrough and example of importing each type of zone panel into a landscape tablet interface. The processes outlined within the following sections are transferrable to importing the zone components for other interface varieties.

Adding GUIAssets

The dynamic interface requires the GUIAssets component which is included in the Clipsal SILC module. Depending on the theme that you are using, please add the relevant GUIAssets into your project:

- **LightingGUIAssets_G4:** required for dynamic interface with Gen IV theme
- **LightingGUIAssets:** required for dynamic interface with Gen III theme

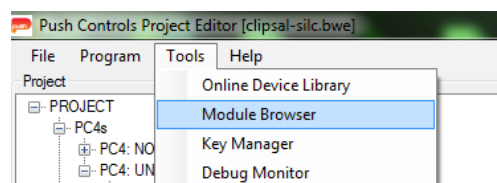
The above GUIAssets can be found under the relevant GUI Group. For example, if you are programming with Gen IV theme, the 'LightingGUIAssets_G4' can be found under 'SILC_TabletContent_G4' or 'SILC_PhoneContent_G4'.

The examples in the following sections will use Gen IV theme, if you would like to use Gen III theme please use the equivalent panel from the GUI Group which ended with '_G3' wording.

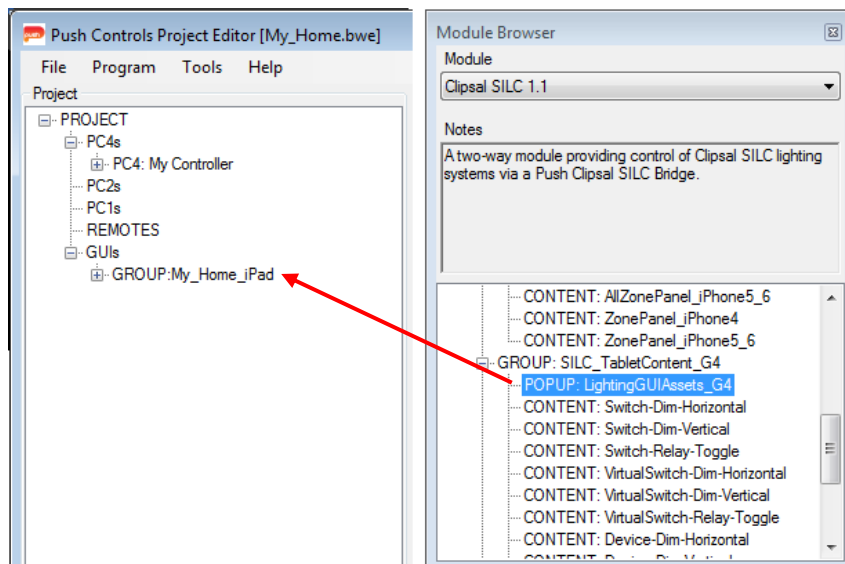
Importing an AllZones panel

The AllZones panels will display all zones, and the lighting components contained within, which have been configured within the PCSB configuration pages (see [HowTo_PCSB](#) document for instructions on configuring zones). For this exercise we are going to import a AllZonePanel_L, which is designed for a landscape tablet interface, but the process outlined below is transferrable to the other AllZonePanel components.

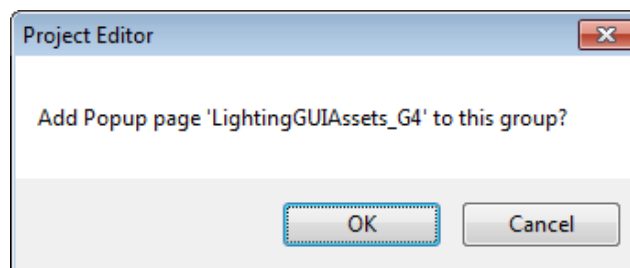
1. To import any GUI content from the Clipsal SILC module you need to open the Module Browser by clicking on Tools -> Module Browser within the Push Project Editor.



2. Expand the GUICONTENT -> GROUP: SILC_TabletContent_G4
3. Left click and hold on the LightingGUIAssets_G4 POPUP and drag the component onto GUI group tag you are working within.

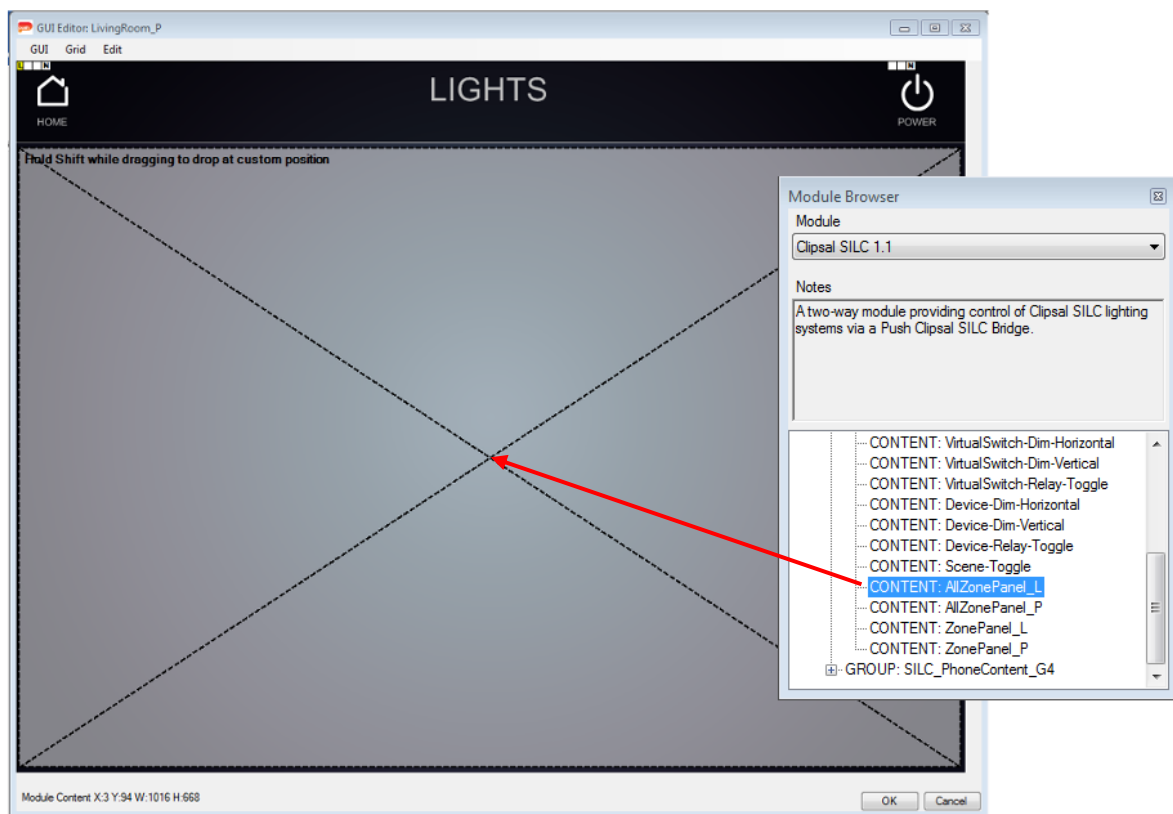


4. Click OK in the dialog box that appears to confirm adding the POPUP page to your group.

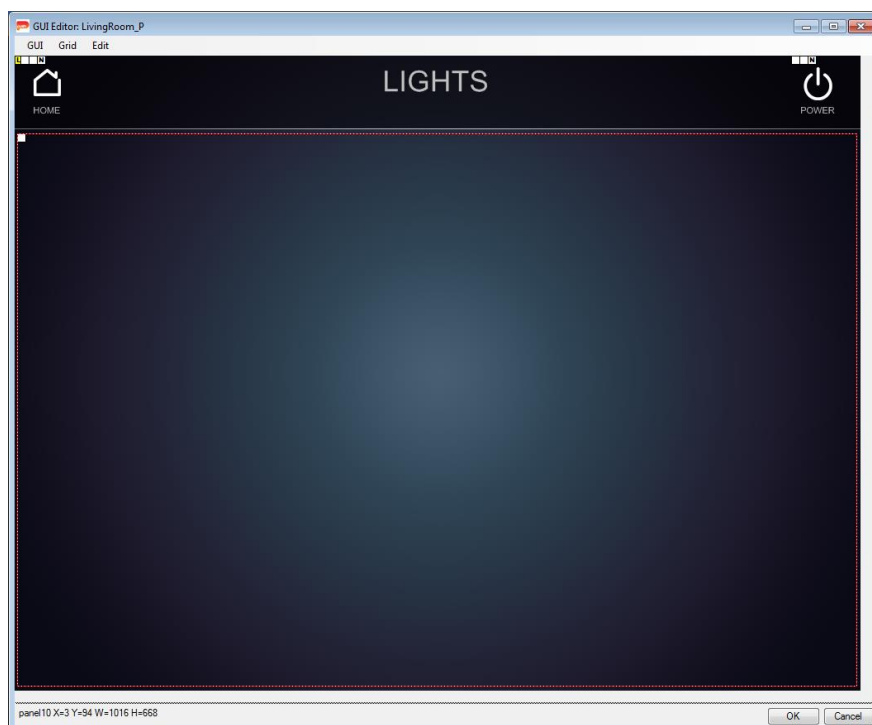


5. Open the GUI page you wish to import the AllZonePanel_L component.

- Left click and hold on the AllZonePanel_L component and drag the component onto the open GUI page.

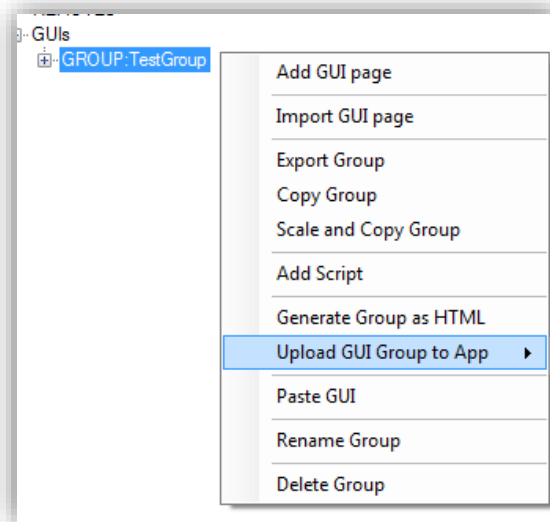


- Once the mouse button is released the placeholder panel will be added to the open page.

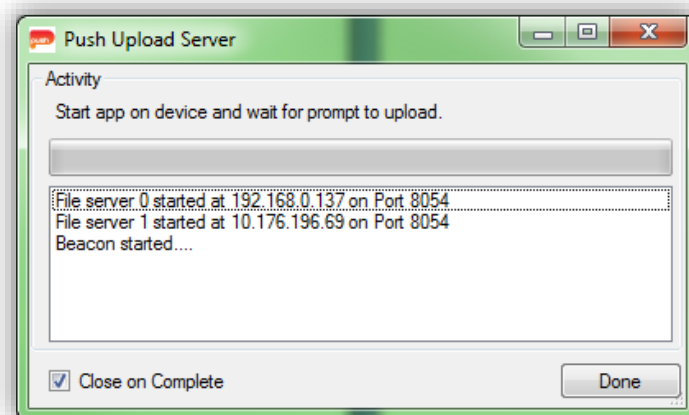


- Click OK to save the changes you have made to the GUI.

9. To see the interface load you will need to upload the GUI group to your device. Right click on the GUI Group and click on Upload GUI Group to App
 - a. Before completing this step ensure you are connected to the same network your smart devices are connected to as you will be uploading from your PC to these devices



10. The GUI files will be generated and compressed, when this process is complete a server will start and you will see the following dialog box



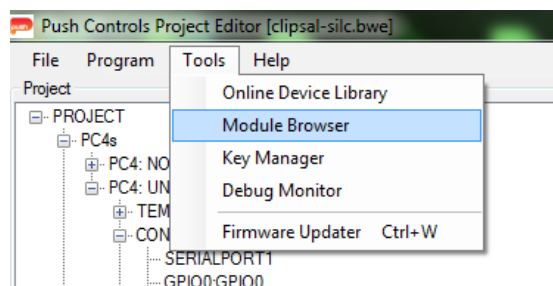
11. When you open the application after the upload you should see your Clipsal SILC system load based on the zones you have configured on the PCSB, which will resemble something like the following screenshot



Importing a Zone panel

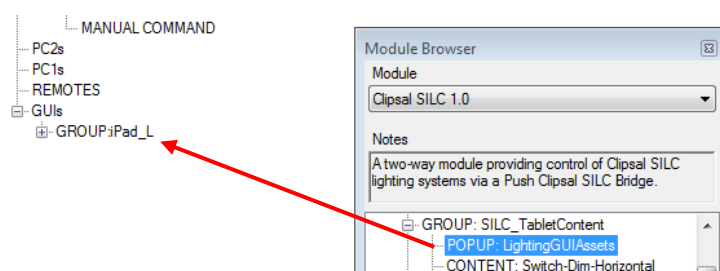
The Zone panels will display a specific zone, and the lighting components contained within, which have been configured within the PCSB configuration pages (see [HowTo_PCSB](#) document for instructions on configuring zones). For this exercise we are going to import a `ZonePanel_L`, which is designed for a landscape tablet interface, but the process outlined below is transferrable to the other `ZonePanel` components.

1. To import any GUI content from the Clipsal SILC module you need to open the Module Browser by clicking on Tools -> Module Browser within the Push Project Editor.

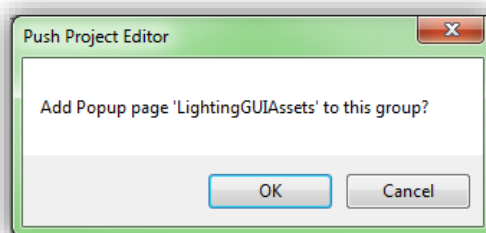


2. Expand the GUICONTENT -> GROUP: SILC_TabletContent

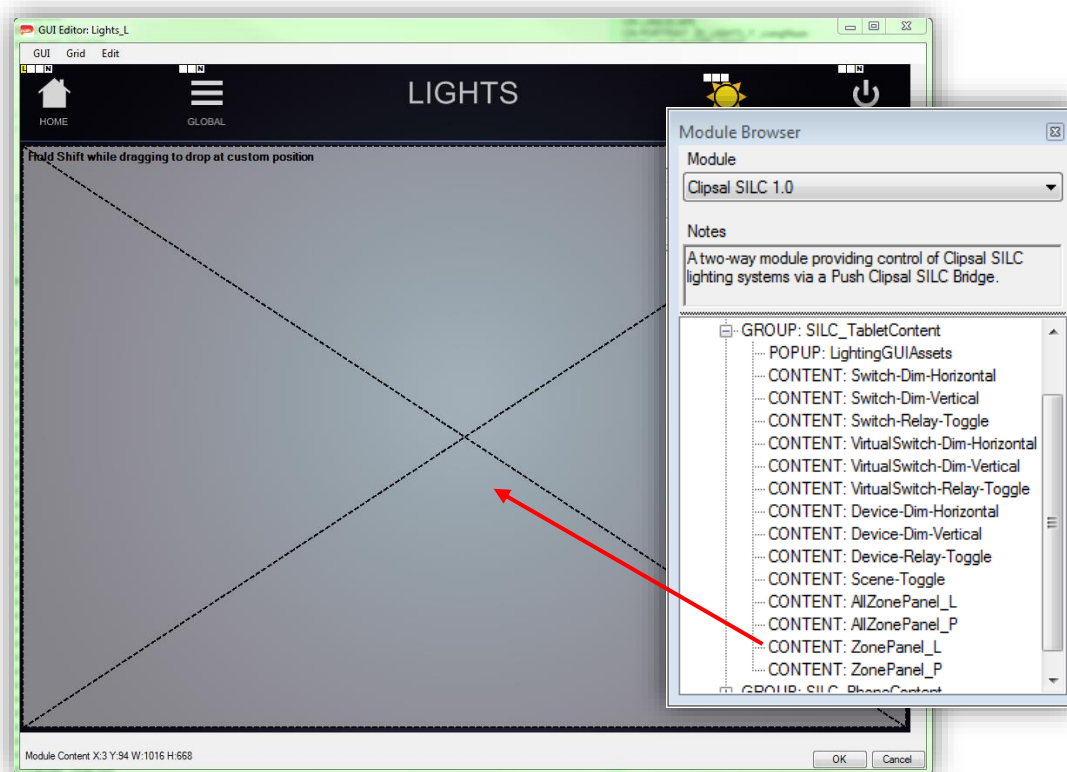
- Left click and hold on the LightingGUIAssets POPUP and drag the component onto GUI group tag you are working within.



- Click OK in the dialog box that appears to confirm adding the POPUP page to your group.



- Open the GUI page you wish to import the ZonePanel_L component.
- Left click and hold on the ZonePanel_L component and drag the component onto the open GUI page.



- Once the mouse button is released a dialog box will open asking for a parameter to be provided (Figure 4). In the case of the ZonePanel_L element the following data is required:

- a. Zone Name: The name of the zone you wish add to the page and be able to control, this can be found in the zones tab in the Push Clipsal SILC Bridge (PCSB) component configuration pages (see Figure 5)

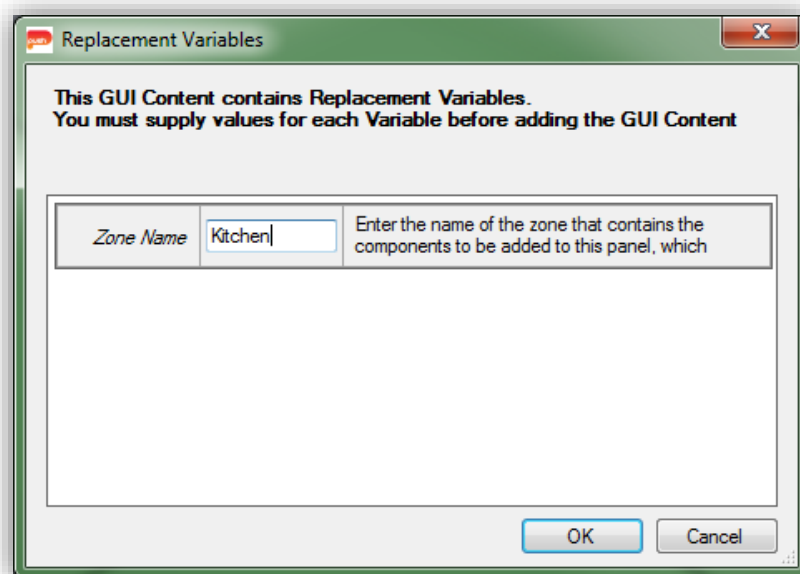


Figure 6 - GUI Content parameter dialog box

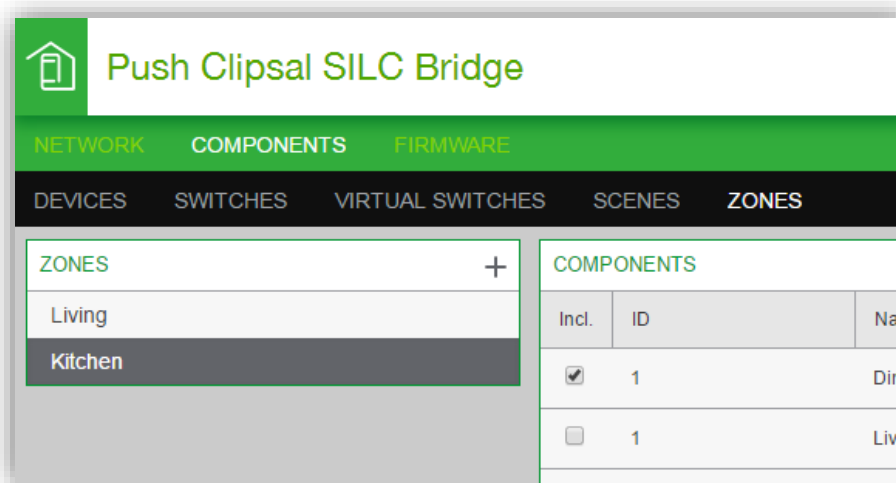
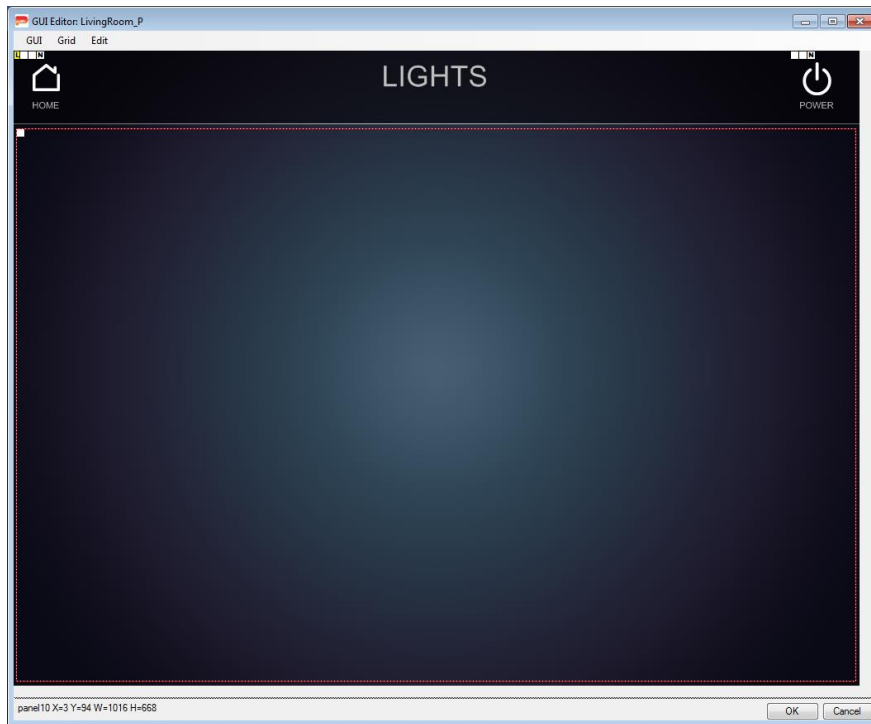
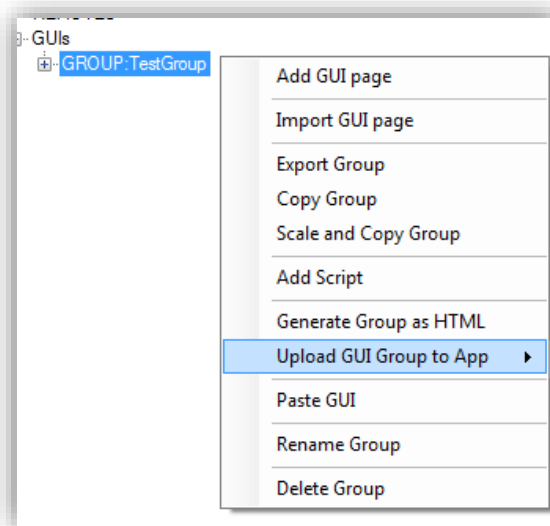


Figure 7 - Highlighting the switch ID required to integrate with a Clipsal SILC switch into Push, accessible under COMPONENTS -> SWITCHES tab

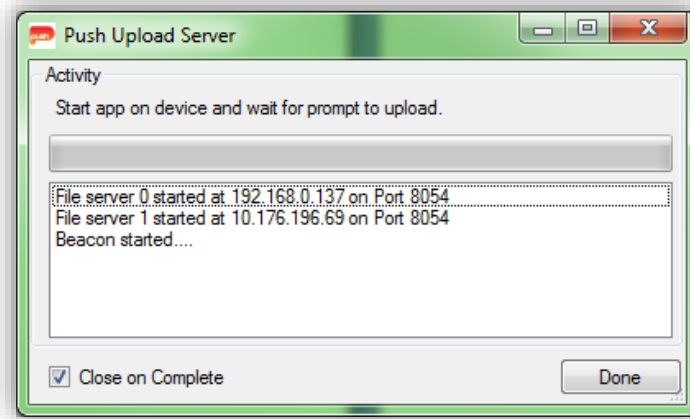
8. After entering the zone name into the provided field click OK, which will complete the process of adding the placeholder panel to the page.



9. Click OK to save the changes you have made to the GUI.
10. To see the interface load you will need to upload the GUI group to your device. Right click on the GROUP:TestGroup and click on Upload GUI Group to App
 - b. Before completing this step ensure you are connected to the same network your smart devices are connected to as you will be uploading from your PC to these devices



11. The GUI files will be generated and compressed, when this process is complete a server will start and you will see the following dialog box



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