



Push Controls

Push Clipsal SILC Bridge

Version 1.0

www.pushcontrols.com.au

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Version History

Version No.	Date	Description
1.0	17/04/2016	Initial document

Getting Started

Connecting the hardware as follows:

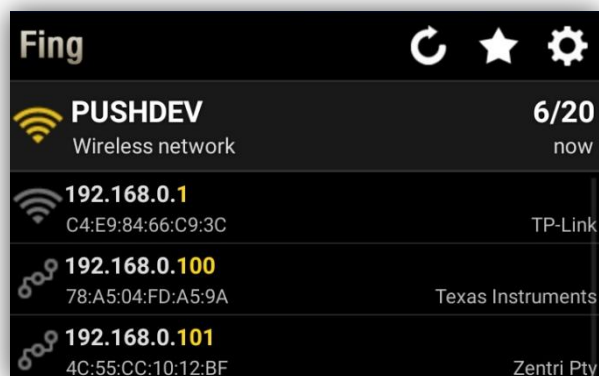
1. Connect the Push Clipsal SILC Bridge (PCSB) to the network via an Ethernet cable.
2. Plug the included 5V power supply into the power socket to power up the PCSB

Once power is applied to the PCSB it will take approximately 1-2 minutes to boot, scan the network for existing Clipsal SILC WiFi gateways and connect. A successful connection to a Clipsal SILC WiFi gateway is indicated by the second LED lighting up on the board on the opposite side of the Ethernet port to the power supply (see image below demonstrating a successful connection).



Push Clipsal SILC Bridge Network Discovery

The Push Clipsal SILC Bridge (PCSB) is setup to automatically be assigned an IP address by a DHCP server on the network, if the PCSB is plugged into a network without a DHCP server the PCSB will default to the IP address 192.168.0.237. You can discover the controller on the network using your favourite network scanning software. Fing is quite widely used and has the convenience of running straight from your phone or tablet as it is an app available on both iOS and Android operating systems. When scanning the PCSB will be displayed as a Texas Instrument device, see the device with the address 192.168.0.100 found using Fing on Android:

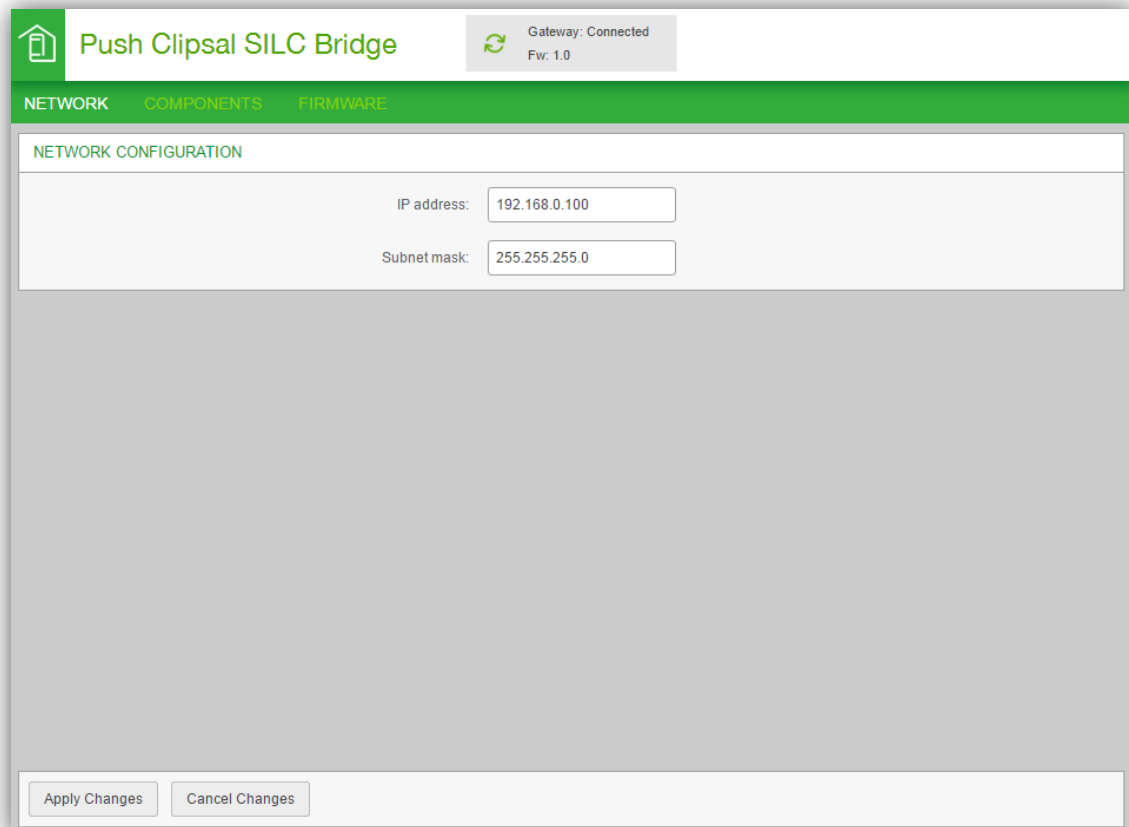


Network Settings

Within a web browser of your choosing navigate to the following URL:

[http://\[PCSB_IP_ADDRESS\]:8080](http://[PCSB_IP_ADDRESS]:8080)

Where [PCSB_IP_ADDRESS] is the IP address that has been assigned to the PCSB controller (see Push Clipsal SILC Bridge Network Discovery for identifying the PCSB IP address). Once you have identified the IP address of the PCSB and navigated to the correct web URL in your browser you will be presented with the networking web page (see below).



The screenshot shows the 'Push Clipsal SILC Bridge' web interface. At the top, there is a header bar with a home icon, the title 'Push Clipsal SILC Bridge', and a status box indicating 'Gateway: Connected' and 'Fw: 1.0'. Below the header is a green navigation bar with three tabs: 'NETWORK' (selected), 'COMPONENTS', and 'FIRMWARE'. The main content area is titled 'NETWORK CONFIGURATION' and contains two input fields: 'IP address:' with the value '192.168.0.100' and 'Subnet mask:' with the value '255.255.255.0'. At the bottom of the page, there are two buttons: 'Apply Changes' and 'Cancel Changes'.

In the networking page you can specify the IP address and subnet mask of the PCSB, simply modify each field you wish to change and then click the Apply Changes button to save the changes you have made. If successful the web page will redirect to the new IP address within the address bar of your web browser.

Zone configuration

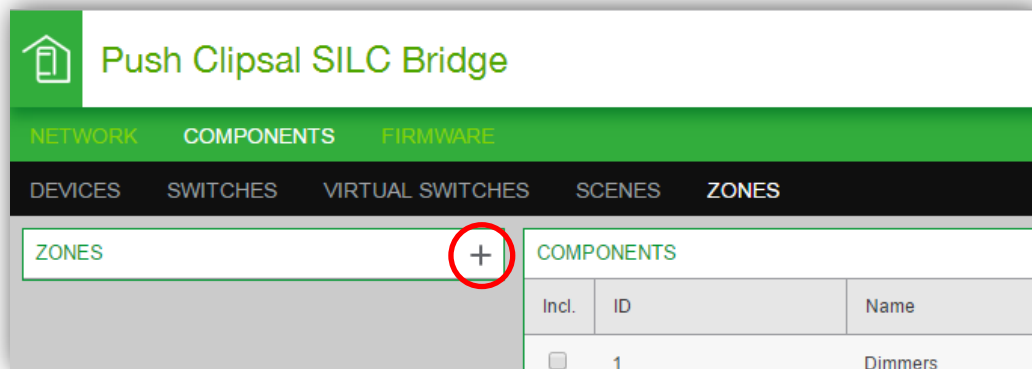
If you are going to be using the dynamic interface generation within the Push Clipsal SILC module then you will have to create zones to assign components to, which will allow grouping of SILC switches, virtual switches and scenes within the Push Clipsal SILC module interface.

To configure/edit zones navigate to the zones component web page either through the direct URL (where 192.168.0.100 is the IP address of the PCSB you are working with):

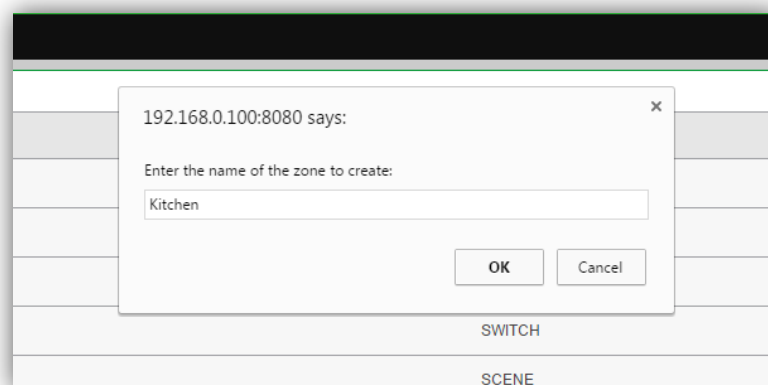
<http://192.168.0.100:8080/components-zones.html>, or navigate from the home page by clicking COMPONENTS -> ZONES within the PCSB web interface. You will be presented with a screen similar to the following screenshot:

Creating a Zone

1. To create a new zone click on the “+” button next to the title of the left zones panel.



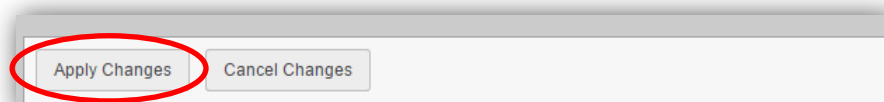
2. A dialog box will appear, which you can now enter the name of the zone you wish to create



3. Once you have entered the desired zone name click OK to add the zone
4. With the newly created zone selected you can now check the box of each component you wish to assign to this zone from within the components table

ZONES	COMPONENTS			
Kitchen	Incl.	ID	Name	Type
	☒	1	Dimmers	VIRTUAL SWITCH
	☐	1	Living	SWITCH
	☒	2	Kitchen Bench	SWITCH
	☐	3	Lamp	SWITCH
	☐	0	Whole Home	SCENE
	☐	1	Mood	SCENE
	☒	2	Kitchen - Breakfast	SCENE
	☐	3	Movie	SCENE
	☒	4	Kitchen - Cooking	SCENE
	☒	5	Kitchen - Watch	SCENE
	☒	6	Kitchen - Listen	SCENE
	☐	7	Chill	SCENE

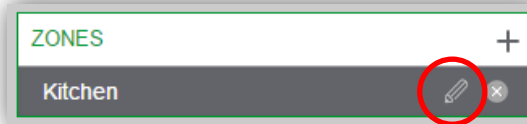
- When you have finished selecting the components to associate to the zone click on the “Apply Changes” button, which will save all of the changes made to the zone configuration



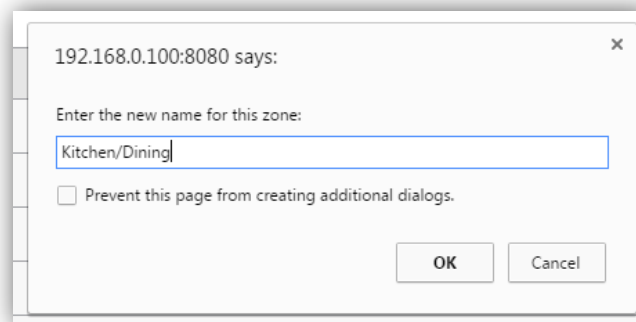
- Repeat steps 1 through to 5 for each zone you wish to create

Editing a Zone Name

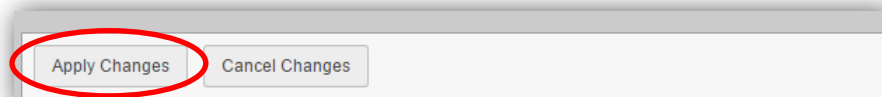
1. Mouse over the zone within the Zones list panel you wish to edit and you will see a “Edit Pencil” and “Delete” button, click on the “Edit Pencil” to edit the zone name



2. A dialog box will appear with the current zone name in the text input field, modify the name within this field and click OK to update the existing zone name to the new name provided

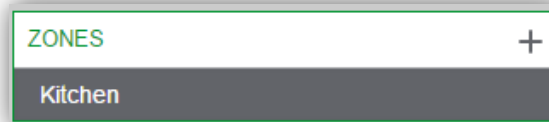


3. Click on “Apply Changes” button to finalise these changes



Editing Zone Components

1. Click on the zone you wish to modify in the Zones list panel so that it is the selected zone in the list



2. Modify the components included in the zone by checking/unchecking the checkboxes associated with each component in the table

ZONES

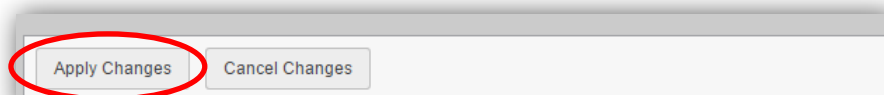
+

Kitchen

COMPONENTS

Incl.	ID	Name	Type
☒	1	Dimmers	VIRTUAL SWITCH
☐	1	Living	SWITCH
☒	2	Kitchen Bench	SWITCH
☐	3	Lamp	SWITCH
☐	0	Whole Home	SCENE
☐	1	Mood	SCENE
☒	2	Kitchen - Breakfast	SCENE
☐	3	Movie	SCENE
☒	4	Kitchen - Cooking	SCENE
☒	5	Kitchen - Watch	SCENE
☒	6	Kitchen - Listen	SCENE
☐	7	Chill	SCENE

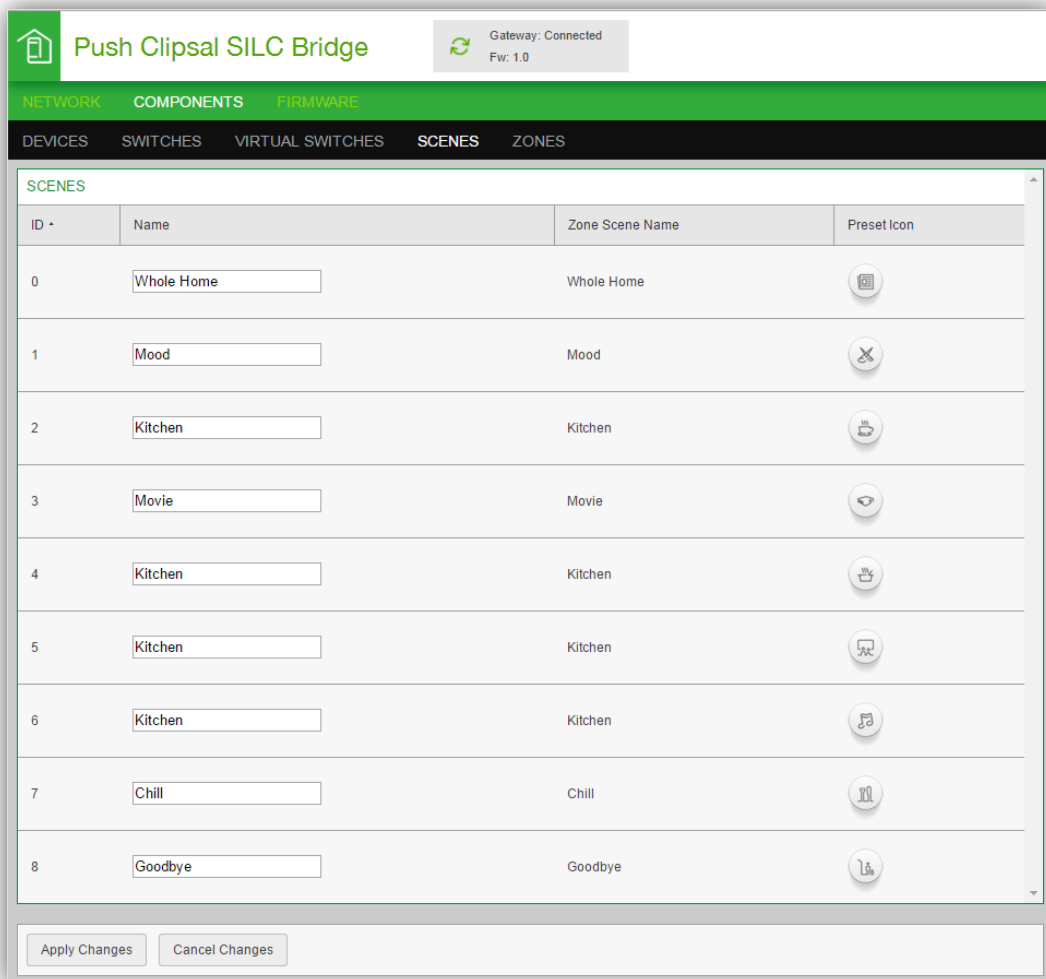
3. Once you are happy with the final configuration, click on the “Apply Changes” button to save the modified configuration to the SILC bridge.



Editing Scene Names

If you are going to be using the dynamic interface generation within the Push Clipsal SILC module then you may wish to change the names being assigned to scene elements that will be displayed within the Push interface. By default the scene names will be direct matches with “Zone Scene Name” specified within the SILC apps. If you only have one preset assigned to each zone scene area modifying scene names will not be necessary and you can skip this step. However when multiple presets have been assigned to zone scene areas then names within the SILC bridge will have to be adjusted as they are only differentiated within the SILC app as different icons (no individual scene names) and each preset will be assigned the same name. In this scenario each preset is a scene in its own right and will be presented in this way within the Push interface.

To modify scene names navigate to the scenes component web page either through the direct URL (where 192.168.0.100 is the IP address of the PCSB you are working with): <http://192.168.0.100:8080/components-scenes.html>, or navigate from the home page by clicking COMPONENTS -> SCENES within the PCSB web interface. You will be presented with a screen similar to the following screenshot:



Push Clipsal SILC Bridge

Gateway: Connected
Fw: 1.0

NETWORK COMPONENTS FIRMWARE

DEVICES SWITCHES VIRTUAL SWITCHES SCENES ZONES

SCENES

ID	Name	Zone Scene Name	Preset Icon
0	Whole Home	Whole Home	
1	Mood	Mood	
2	Kitchen	Kitchen	
3	Movie	Movie	
4	Kitchen	Kitchen	
5	Kitchen	Kitchen	
6	Kitchen	Kitchen	
7	Chill	Chill	
8	Goodbye	Goodbye	

Apply Changes Cancel Changes

Modifying a scene name is as simple as highlighting the text of the existing scene name to be modified and then enter the new name to be assigned. Scene #2, #4, #5 and #6 have the same name with the preset icons on the right depicting different scene presets, which will match the preset icons displayed within the native SILC app. For an example we will change the name of scenes 2 and 4 below:

1. In this task we will change scene #2 name to be Breakfast and scene #4 to be Cooking

2	Kitchen	Kitchen	
3	Movie	Movie	
4	Kitchen	Kitchen	

2. Highlight the existing text in the text field adjacent to scene #2 and type Breakfast

2	Kitchen	Kitchen	
---	--------------------------------------	---------	---

2	Breakfast	Kitchen	
---	--	---------	---

3. Highlight the existing text in the text field adjacent to scene #4 and type Cooking

4	Kitchen	Kitchen	
---	--------------------------------------	---------	---

4	Cooking	Kitchen	
---	--------------------------------------	---------	---

4. To save changes click on the Apply Changes button at the bottom of the scene component web page

8	Goodbye	Goodbye	
Apply Changes Cancel Changes			

Updating Firmware

To update the firmware of the PCSB navigate to the FIRMWARE tab from within the PCSB web interface, note that this is accessed via port 8085 as opposed to the 8080 of the rest of the interface if you wish to go to the direct URL: <http://192.168.0.100:8085/firmware.html>

1. Click the Browse button and navigate to the firmware update file within the explorer window that has opened.
2. To finalise the firmware update click the "Update Firmware" button. If the firmware update is successful you will be prompted to reboot the PCSB controller, otherwise you will be presented with an error and will have to try the process again.