Honeywell

EngINN Release notes

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Date:	**13-August-2021**

Revision History

Version	Date	Description	Author
1.00.00	07-Mar-2016	First draft document	AAN
1.00.01	25-Aug-2017	Appended subsection in Changes from previous version as old version changes	AAN
1.00.02	8-Dec-2017	Appended subsection in Changes from previous version as old version changes	SAK
1.00.03	11-Mar-2019	Updated with changes for EngINN 1.4 release	AKS
1.00.04	24-Dec-2019	Updated with changes for EngINN 1.5 release	AKS
1.00.05	14-Jan-2021	Updated with changes for EngINN 1.6 release	AKS
1.00.06	01-Apr-2021	Updated with changes for EngINN 1.7 release	AKS
1.00.07	13-Aug-2021	Updated with changes for EngINN 1.8 release	AKS

Review

File Name	EngINN release notes.docx
Document	EngINN Release Note
Revision	1.00.07
Reviewer	Haresh
Done until	13 August 2021

Contents

1 Purpose

The document specifies the features supported in EngINN version 1.1.

The purpose of the Release Notes is to communicate the major new features/enhancements/defect fixes in this release of the EngINN Software. It also documents known problems and its respective work-around as applicable.

2 Standards and References

2.1 Standards

Ref.	Title	Author	Date
#N1	NA	NA	NA
#N2			

2.2 References

Ref.	Title	Author	Date
#R1			
#R2			
#R3			

3 Abbreviations

Abbreviation	Meaning
EMS	Energy management system
UI	User interface

4 Definitions

Definition	Meaning

5 Installation Procedure

Installation procedure mentioned here is for internal Honeywell users only. Outside users like ASIs, should get the latest EngINN through INNCOM (dealer's area) website.

Prerequisite: Valid internet connectivity for installation and connected to Honeywell network.

Note –

1. **New installation –** Following apply for fresh installation -
- Download EngINN
- Double Click to open the setup.exe and install the application.
- Once installed, double click the shortcut created on the desktop to open the EngINN.

2. **Update existing**

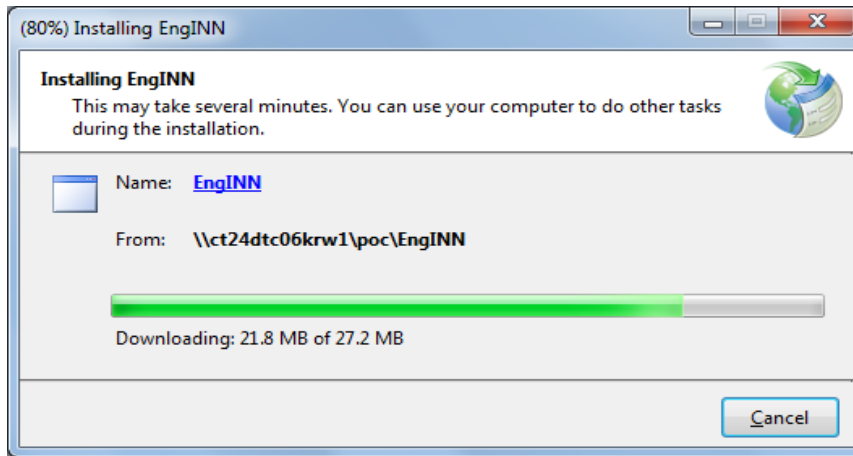This procedure shall work for already installed EngINN users

Following steps needs to follow for update

- Select installed EngINN as per below screen
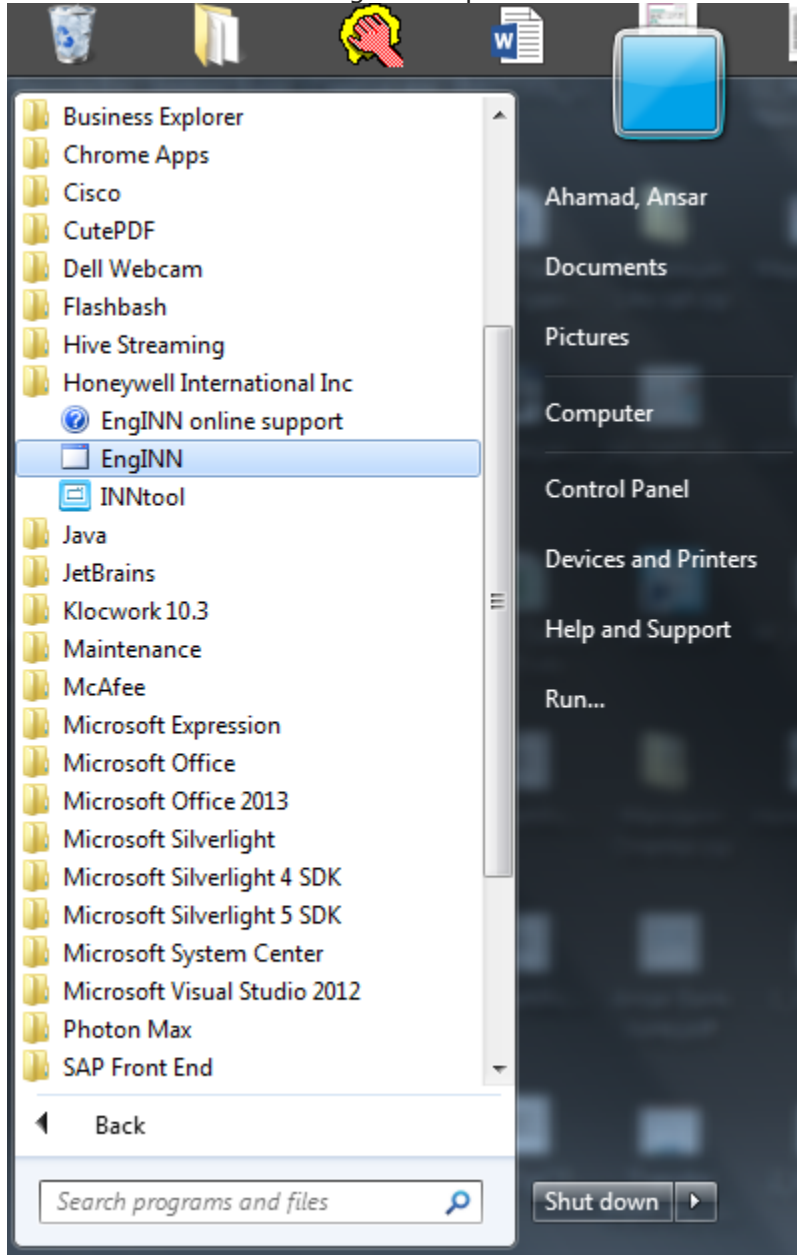
- Uninstall the application.

- Follow the steps for new Installation as mentioned in point 1.

- EngINN shall open once download completed.

6 Supported Operating Systems

Windows 7 (English) 32 and 64 bit
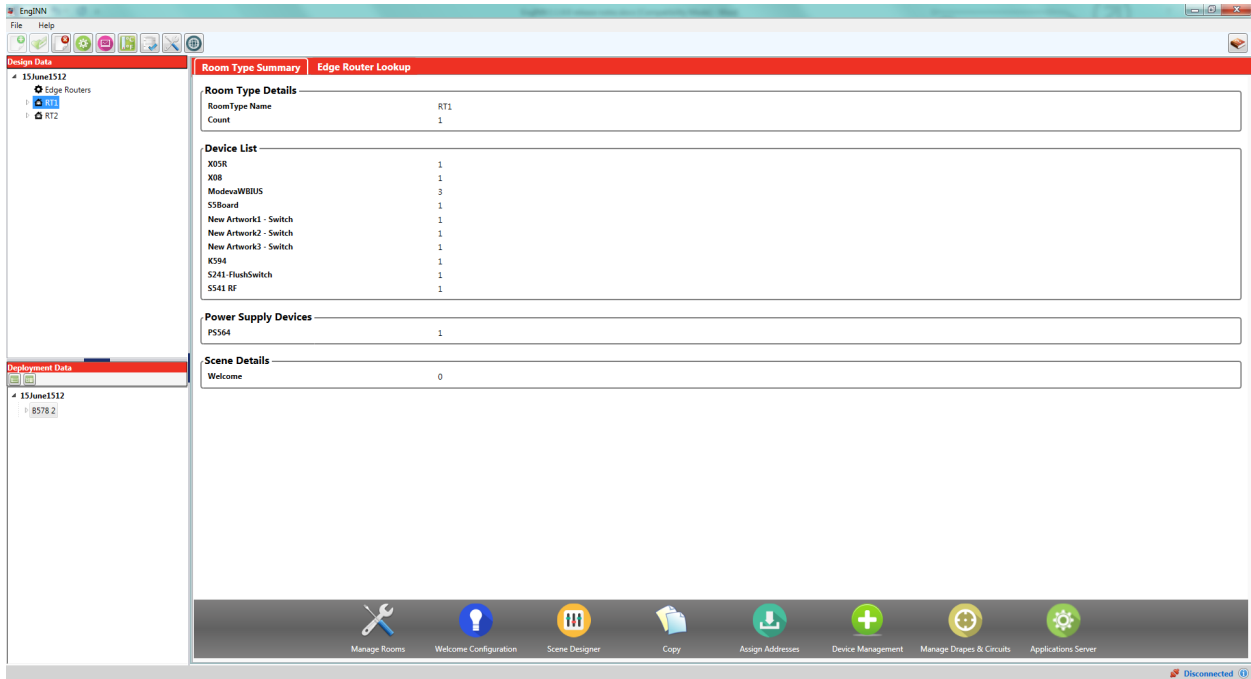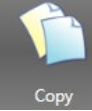
7 Application features

Figure 1 : EngINN application sample screen

EngINN application left section have two subsections/ trees, design data and deployment data.
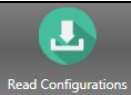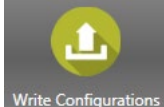
- Design data tree consist all available room type and its devices as child node.
- Deployment data shall have node of actual room instances and child node as device instances.
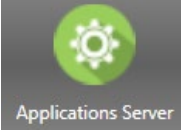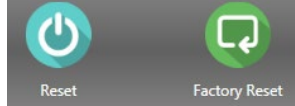
Following are the features supported by design data (Room type)

S. No.	Features
1	Right section shall show summary based on selected node of design data tree.
2	Manage Rooms Provide facility of manage rooms for deployment data. - Add delete and modify Building, floor, wing and rooms. - Convert room into suit. - Change room ID

3	Tool shall have ability to change welcome configuration and scene designer. Welcome Configuration Scene Designer
4	Copy Copy Using Copy feature room type copy shall be created by giving name.
5	Assign addresses Assign Addresses - Ability to view and change room device address uniquely. - Auto assigning shall assign devices address automatically.
6	Device management Device Management Following facilities provided. - Allowed to add, delete and modify switch instance of existing available artwork. - Allow to add, delete and modify third party switch with MCM4. - Lam Controller devices like L208 Dimmer & relay shall be added and deleted. - Dimmer devices like D254_FET, D254_TRIAC and D454_FET shall be added and deleted. - Manage drapes & Circuits screen shall provide facility to create logical drapes and circuit.
7	Right section shall show summary based on selected node at design data tree.
8	Configure Configure - User shall be allowed to view and update device configuration using easy editor as well as advance configuration. - Easy editor shall have custom validation specific to device.
9	Changes made at design data shall automatically reflected at deployment data.

Following are the features supported by deployment data (Room instance). Many of the features only works when application have valid connection with PC503.

S. No.	Features
1	Right section shall show summary based on selected node of deployment data tree.
2	Configure - User shall be allowed to view and update device configuration using easy editor as well as advance configuration. - Easy editor shall have custom validation specific to device. - After valid changes these icons shall enabled - Easy editor shall have custom validation specific to device.
3	Device instance node font color become red when updated configuration not uploaded to actual device instance.
4	Changes made at deployment data shall allow to commit to referred room type or make new room type.
5	Bind - All addressable devices shall be bind using Bind feature. - Application shall notify on successful binding/ device online. - Configuration upload and download shall only work when device is online. - Device address will be update after successful binding.
6	Read configuration - Application shall allow to read device configuration after device binding. - Configuration read progress shall be listed in Task manager popup. - User shall allow to view downloaded configuration using easy editor and advance configuration screens. - After configuration read user shall have choice to commit to referred room type or make new room type. - Device instance node font color shall become blue when downloaded configuration defer from referred room type device.
7	Write Configuration - Tool shall allow user to write device configuration to actual device instance. - Device instance font color back to normal (Black) after successful upload.

8	Link Room Type Link Room Type Facility to change linking/ referred of room instance with room type.
9	Application Server Applications Server allow to view and change application server configuration.
10	Ability to reset and factory reset devices using tool. Reset Factory Reset
11	Tool shall have ability to change welcome configuration and scene designer. Welcome Configuration Scene Designer

Other features

S. No.	Features
1	Trace Viewer - Trace viewer shall open using icon at tool bar. - Window shall show as tab with summary section. - Trace viewer shall close using icon at tool bar. - Viewer shall show live P5 message. - Viewer shall have facility to filter messages using Room ID, message type and source ID. - Trace messages shall be filtered automatically based on selected node (Room instance ID or Device instance ID) at deployment data. - Provide ability to export/ save messages in file for further investigation.
2	Task manager Task manager shall open as popup on Home screen. - Popup shall listed all running tasks (Configuration upload and download). - Each item represented as individual task.

	- Task shall have fields like Operation type, Room ID, Device ID, Progress, Status, Quality of task, Note and Task Logs. - Task manager shall provide facility to Pause and Resume individual task.
3	Settings Settings shall launch to view existing communication settings as well allow to alter.
4	Open project file
5	Close Project file
6	Show manage room tree view
7	Show Edge router lookup
8	Status bar shall show connection status of PC503. By clicking settings screen shall open.

S. No.	Limitations
1	Addition and deletion of circuit is not supported.
2	New project file shall not be created using EngINN.
3	Existing room type cannot be deleted from design data.

8 Changes from previous version

8.1 Version 1.8

S. No.	Enhancements/ changes

1	Easy editor will briefly display the advanced configuration change to make button as custom, custom button function will now internally hold previously selected valid button configurations and SFT will display it as it is.
2	Scene levels for 16-48 are now updated in the virtual registry created from the CBL8 device.
3	Displayed Scene number in scene preview of switch easy editor and total room count in Project Summary page.
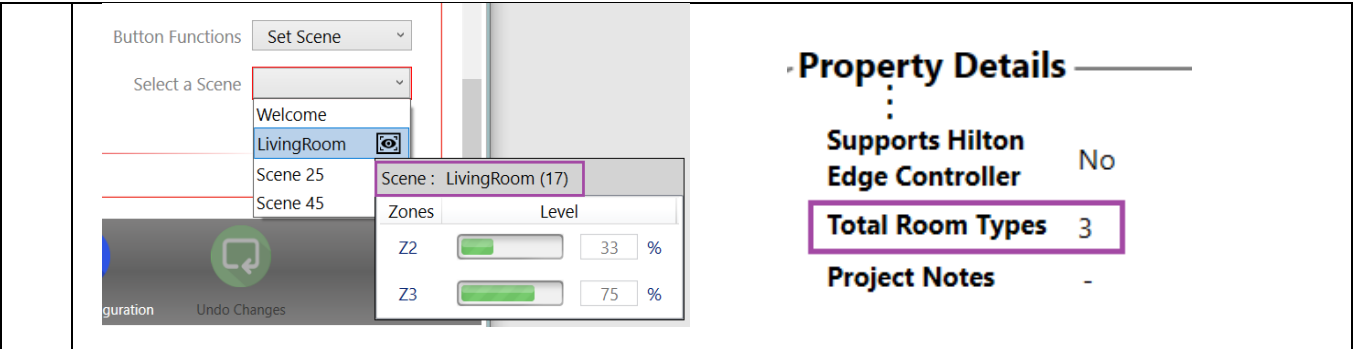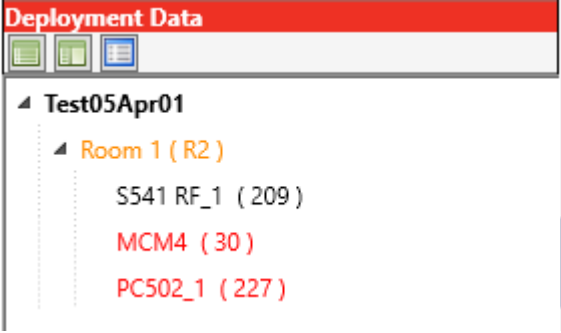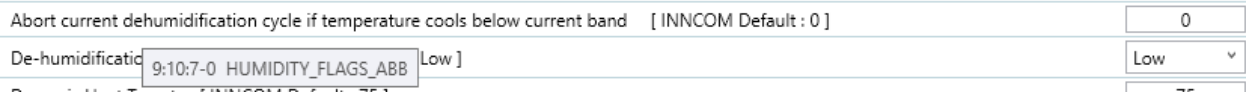
| 4 | Create instance is validated after command click and pop-up message shown in case of error. |

| 5 | Issue fixed: |

a. P5 Floss server was getting enabled by default in the e7/ room gateway.
b. Allowed configuration write to write P5 Cached NVRAM every time even 193_6 registry CRC matched. By doing this EngINN makes sure that server configuration shall always remain updated in a device.
c. Setting of Lock Proxy to Salto RF by default when no CELS selected is fixed.
d. INNtouch devices, EMS devices and other device address related issues fixed.
e. EngINN/INNtool sets the "SYNFIL" bits to "10" in Registry 7:1:X:2 DriverConfigFlags when the Input is supposed to be used.
f. Corrected 9:6 & 193:6:4 Registry default settings for all Thermostats.
g. Virtual input registry is now maintained when primary button function is custom and additional button function exist.
h. Lighting Output advanced configuration changes are retained when opened with INNtool to make additional changes

8.2 Version 1.7

S. No.	Enhancements/ changes
1	EngINN deployment data section will now list PC502 as part of the Common Door/BOH Room types **Deployment Data** ◢ Test05Apr01 　◢ Room 1 (R2) 　　　S541 RF_1 (209) 　　　MCM4 (30) 　　　PC502_1 (227)
2	D454.FET Registry 193:6 P5 Cached NVRAM and P5 Cached NVRAM, default value correction done.
3	9:10:7 Humidity flags bit-3 ABB – AbortBelowBand. Abort current dehumidification cycle if temperature cools below current band　[INNCOM Default : 0]　　0 De-humidificatio　9:10:7-0　HUMIDITY_FLAGS_ABB　Low]　　Low ˅

8.3 Version 1.6

S. No.	Enhancements/ changes
2	Added support for 6 button American Modeva switch configuration, including easy editor and advance configuration change.
3	Address uniqueness within HVAC zones is now supported for EMS devices as well. User can drag and drop ems devices to any specific HVAC zone based on his requirement in a networked project.
4	DALI implementation extended to support White tone deature. Designed white tone supported zone shall be shown in easy editor. EngINN shall discover gear and identify white tone supported gears, allow user to map and update design using drag and drop and click assign mapping.
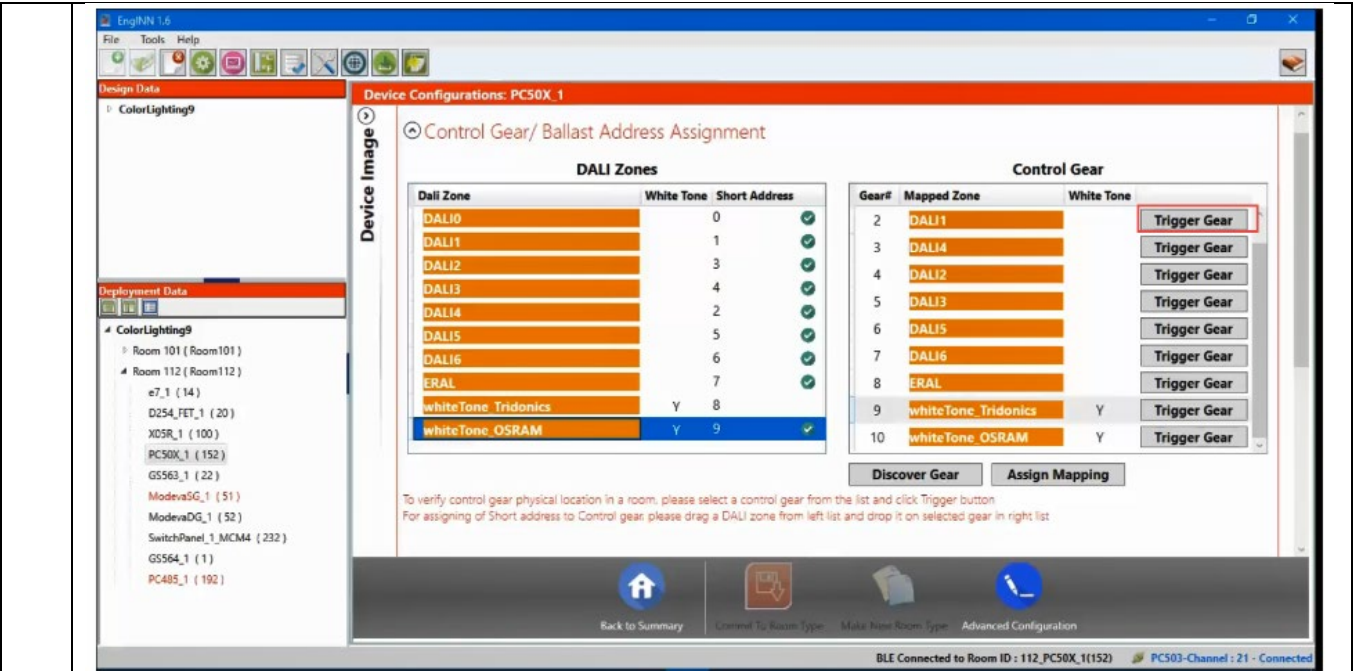
Supported to change white tone levels in welcome scene
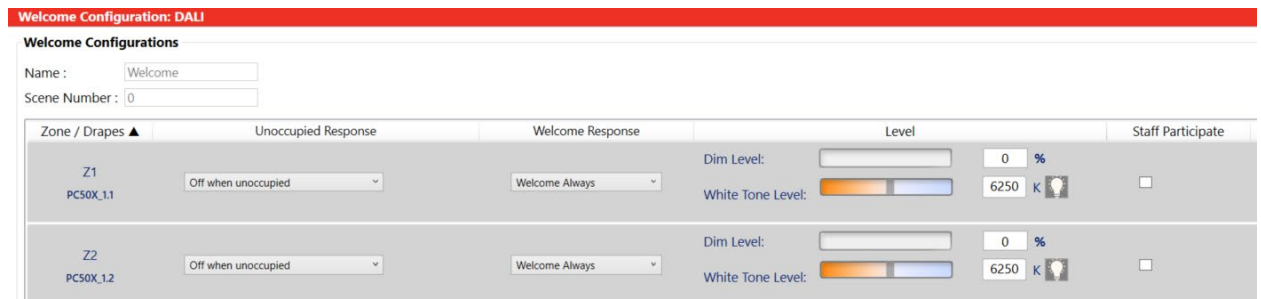
Scene designer shall also support to manipulate individual gear white tone level at any scene
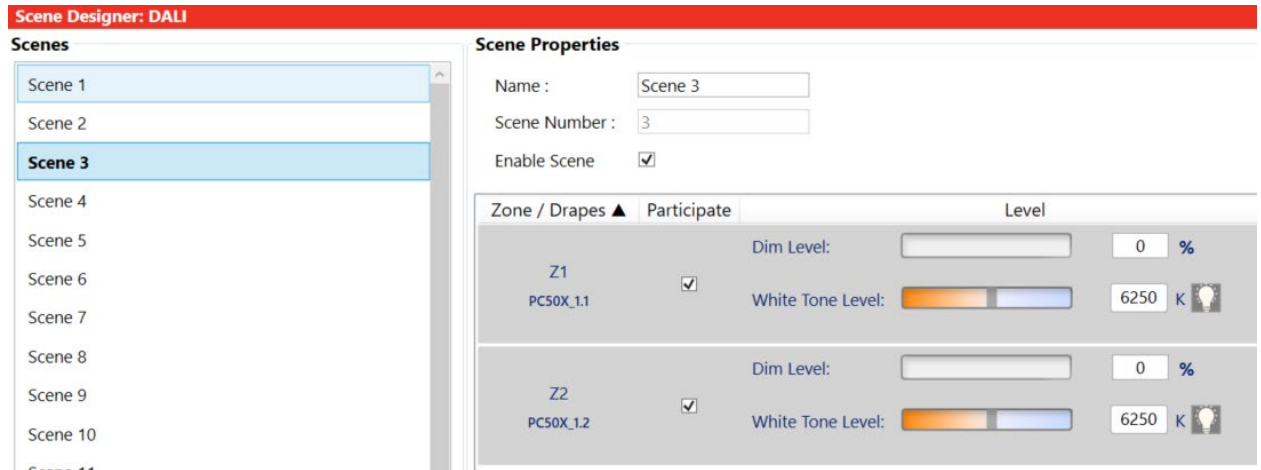
White tone supported button function can also be configured or change in EngINN

Gang 1 Button Configuration

1	Function Type: Lighting	Button Functions: White Tone Set
	Add more button function	Select a Zone: Z1

White Tone Level: 5000 K

☑ DIM Required

Select Dim Level: 50 %

5	Generation of SFT is now possible in EngINN
6	Secure key configuration is supported for edge router connectivity.
	Added support for configure secure Edge router.
	Secure key must be added at design data Edge Router summary page and same key can be use across the all edge router instances.
	Key will never save in project file.
	Same configured key shall be reuse at all Edge router
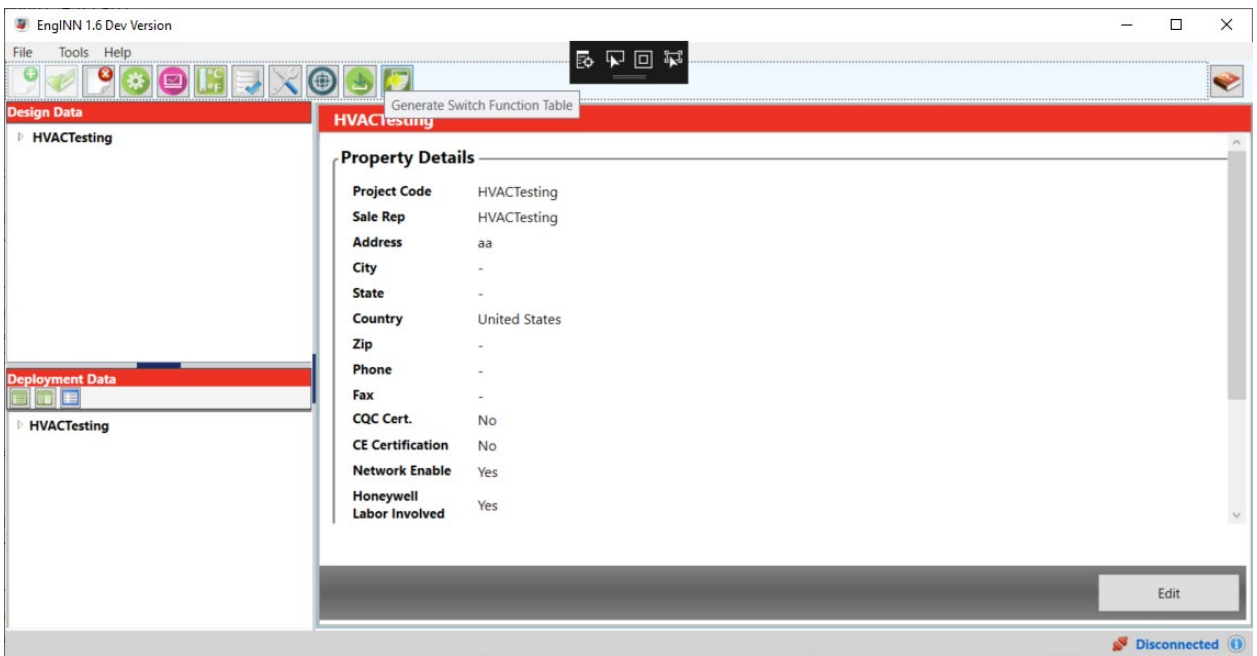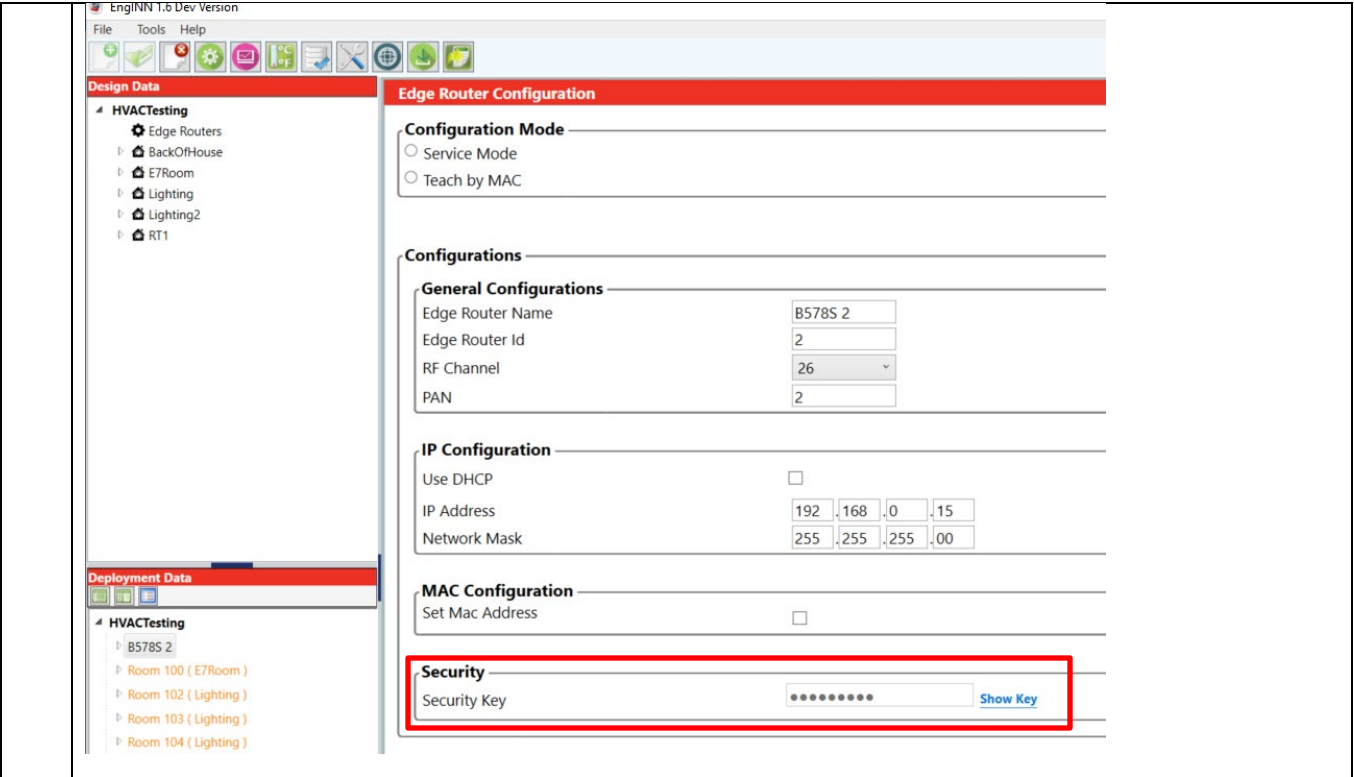
7	Based on secure connected project feature, edge router selection differs.
8.	Now EngINN shall provide functionality to generate lighting script
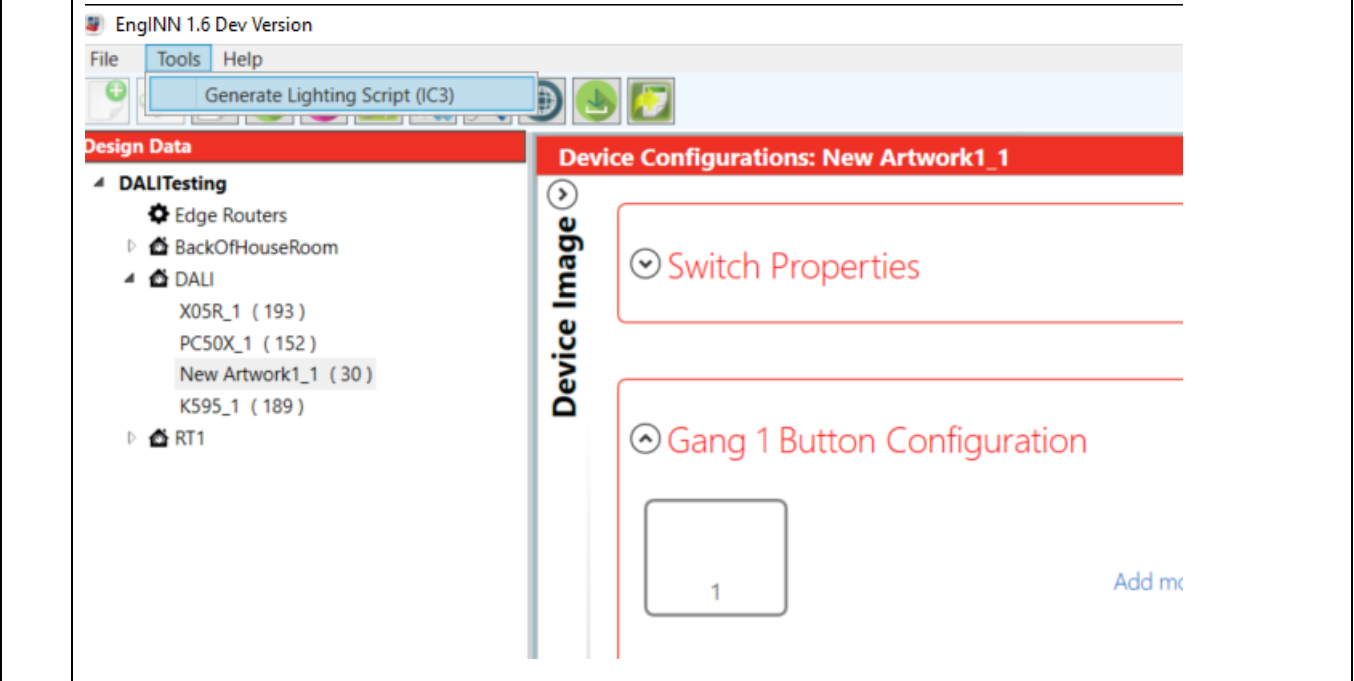
```
LightingDef.cfg - Notepad
File  Edit  Format  View  Help
; Project Name: DALITesting
; Created Date: 1/29/2021 4:15:13 PM
; EngINN Version: EngINN 1.6.0.31


;-------------------------------------------------------------
; Hotel RoomTypes
; RoomTypeDef=ID,"Name"
;-------------------------------------------------------------

RoomTypeDef=1,"DALI"
RoomTypeDef=2,"BackOfHouseRoom"
RoomTypeDef=3,"RT1"

;-------------------------------------------------------------
; Light Circuit Names for DALI type (1)
; LogicalCircuit(0-255)
; Format:
; LightName=RoomTypeID,LogicalCircuit,"Name"
;-------------------------------------------------------------
LightName=1,1, "Z1"
LightName=1,2, "Z2"
LightName=1,3, "Z3"
LightName=1,4, "Z4"
LightName=1,5, "Z5"
LightName=1,6, "Z6"

;-------------------------------------------------------------
; Light Circuit Names for BackOfHouseRoom type (2)
; LogicalCircuit(0-255)
; Format:
; LightName=RoomTypeID,LogicalCircuit,"Name"
;-------------------------------------------------------------

;-------------------------------------------------------------
; Light Circuit Names for RT1 type (3)
; LogicalCircuit(0-255)
; Format:
; LightName=RoomTypeID,LogicalCircuit,"Name"
;-------------------------------------------------------------

;-------------------------------------------------------------
; RoomType associated to roomID
; RoomTypeAssociation=RoomID,RoomTypeID
;-------------------------------------------------------------
RoomTypeAssociation=101,1


;-------------------------------------------------------------
; Light Runtime Threshold
;-------------------------------------------------------------
; Set the runtime threshold (hours) for one property, this threshold is
; used as reference to determine when to send a runtime alarm.
```
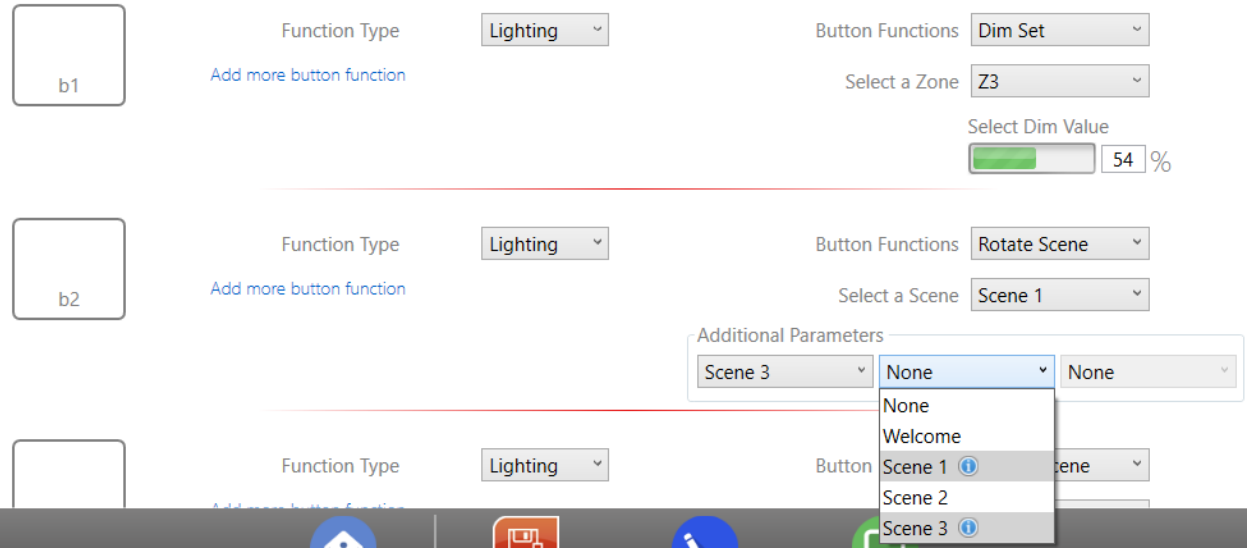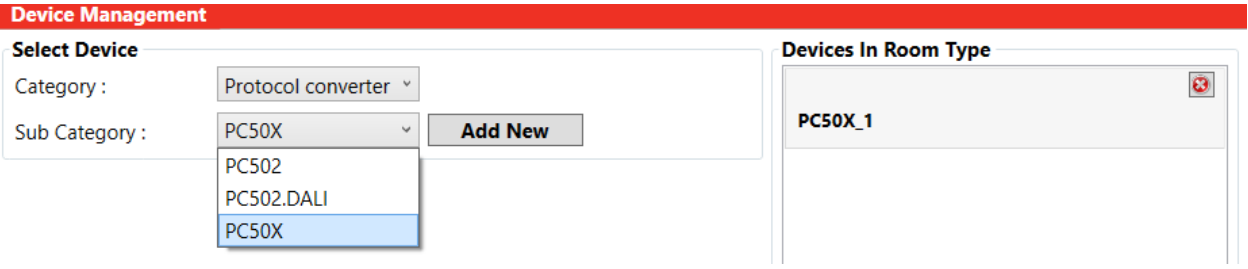
8.4 Version 1.5

S. No.	Enhancements/ changes
1	New button function added as Dim Set and Rotate Scene, which will support additional button function parameter configuration in switch function mapping of INNtool. Dim set will have

	additional parameter dim value and rotate scene will have two or more scene parameters for configuration. ⊙ Button Configurations b1 — Function Type: Lighting — Add more button function — Button Functions: Dim Set — Select a Zone: Z3 — Select Dim Value: 54 % b2 — Function Type: Lighting — Add more button function — Button Functions: Rotate Scene — Select a Scene: Scene 1 — Additional Parameters: Scene 3, None, None None Welcome Scene 1 ⓘ Scene 2 Scene 3 ⓘ Function Type: Lighting — Button Functions: ...ene
2	PC50X DALI device can be added in device management. **Device Management** **Select Device** Category : Protocol converter Sub Category : PC50X — **Add New** PC502 PC502.DALI PC50X **Devices In Room Type** **PC50X_1**
3	DALI short addressing is supported in device easy editor. All existing DALI Ballast zones are listed below in Configurations section. On expanding of each zone, details about dimming is shown, user can modify details and Save. User can also edit and change the short address of DALI zones here.

DALI Zone Configurations

Dali Zone	Zone Type	Logical Circuit #	Short Address
Z3 🚫	Dimmer	3	0

Dimming

Minimum DIM Level	1
Maximum DIM Level	100
Dimming Rate	Normal
Fade Time	Instant
Power On Level	100%

Dali Zone	Zone Type	Logical Circuit #	Short Address
Z4 ➕	Dimmer	4	1
Z5 ➕	Dimmer	5	2

4	Discover Gear feature supported in PC50X easy editor at device instance level. During discovery PC50X communicate with EngINN over BLE communication. Below UI shall list all the discovered control Gear in right side panel. Allow user to map DALI zone with control gear by drag and drop. Different color indication provided to distinguish between mapped and unmapped zones and gear.

Control Gear/ Ballast Address Assignment

DALI Zones

Dali Zone	Short Address
Z3	0
Z4	1
Z5	2

Control Gear

Please Click on Discover button to discover Gear

[Discover Gear] [Assign Mapping]

5	Group configuration included in manage groups section.
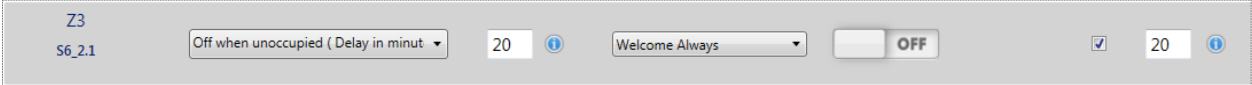
| Logical Circuits | Zones (Lighting circuits) | Logical Drapes | Drapes | Groups |

Groups List

Group 1 (221)   ⊗

Add New

Groups Details

Name : Group 1

Select Zone(s)

☐ Z1 (vbnvbn)
☐ Z2 (bnmbnm)
☑ Z3 (vbnvbn)
☑ Z4 (dfgdf)
☐ Z5 (ghnvnb)

| 6 | Provided support for dynamic suite linking. Connecting door type rooms can be linked to any other room in manage rooms section as a result to form a dynamic suite. |
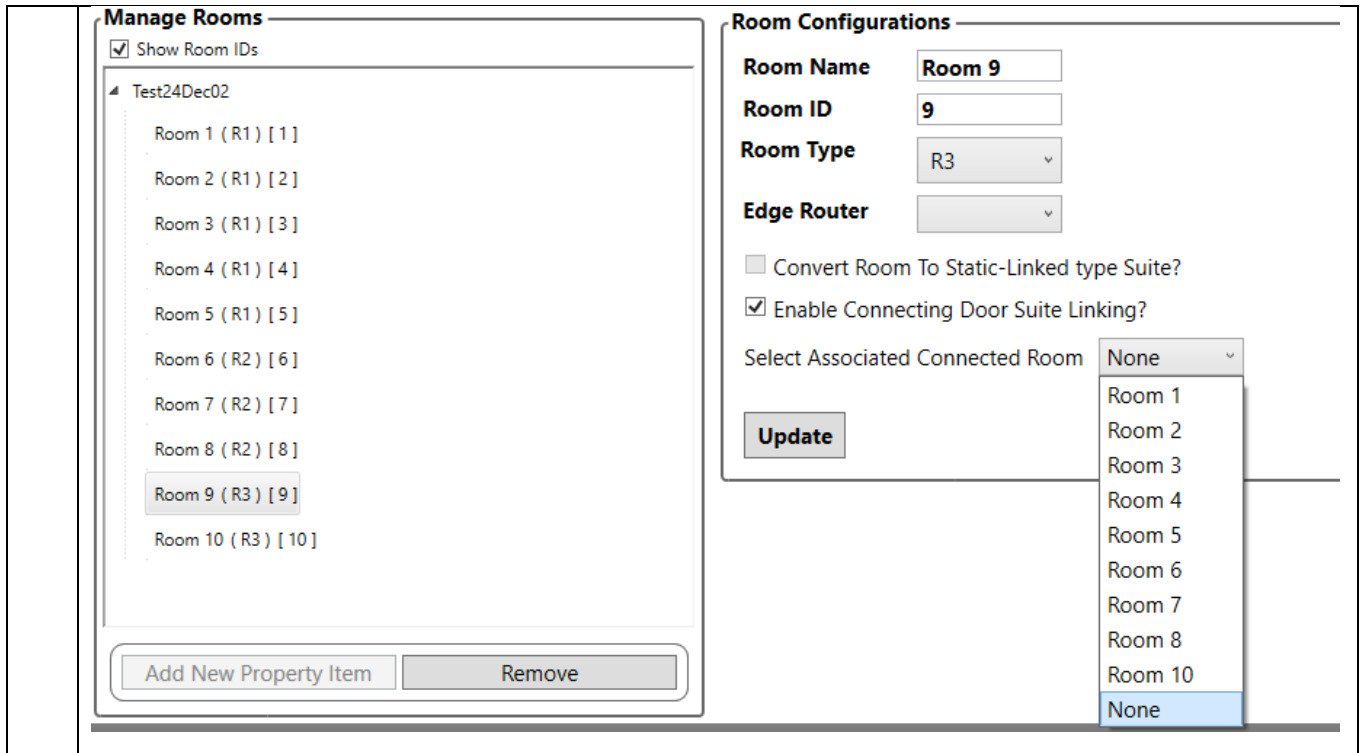
8.5 Version 1.4

S. No.	Enhancements/ changes
1	Occupancy based control type zones are not allowed for button function mapping in switch easy editor.

2	In welcome configuration, user can edit occupancy delay for Guest and Staff, when occupied with delay option is selected for unoccupied response.
	Provided sorting of entries in welcome scene and Scene configuration in ascending/descending order of the columns (Zone, controller, unoccupied, welcome response).
	Tools updated to handle 48 scenes; including welcome, 47 scenes are listed in scene configuration page.
3	Multiple Button operation on single press of Button.
	Additional button function supported in switch button function mapping.
	User can add maximum two additional button function for a single button. Additional button function can also be removed if not required.
	For DND/MUR and Slider, additional button function is not enabled to add.
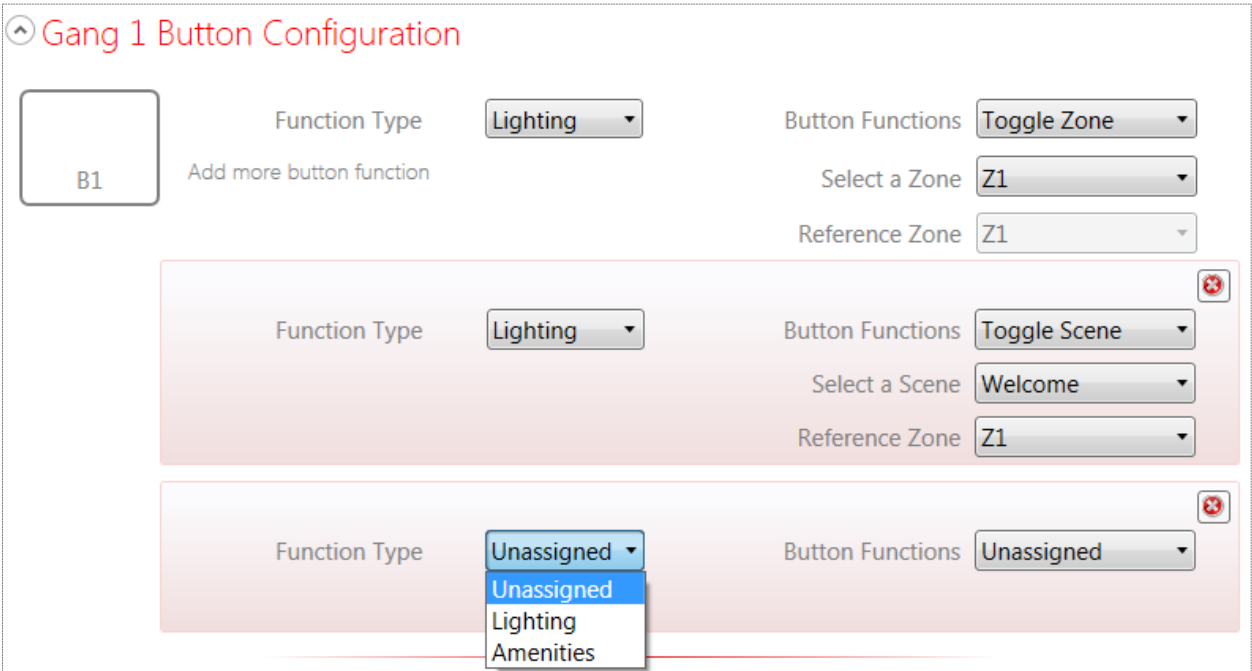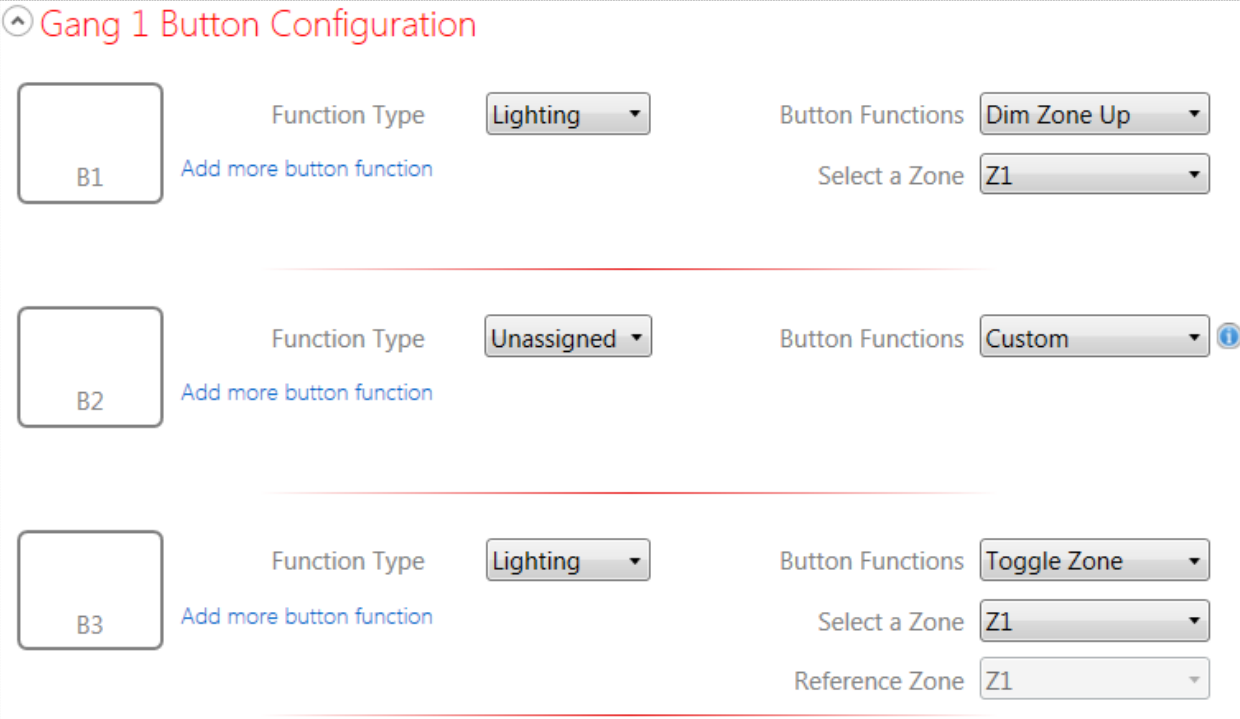
Gang 2 Button Configuration

Slider	Function Type: **Lighting** ▾	Button Functions: **Slider (Dimmer)** ▾
	Add more button function	Select a Zone: **Z1** ▾

| 4 | Custom button function option provided in EngINN, that is whenever button function configuration is changed from advanced configuration for switch and it is not matching with any valid button function or parameter, then selected button function is set as 'Custom'.

Custom button function is disabled for selection.

Custom button function shown in easy editor for that button, which will have user edited configuration and it is not matching with known standard function and parameter values.

Gang 1 Button Configuration

B1	Function Type: **Lighting** ▾	Button Functions: **Dim Zone Up** ▾
	Add more button function	Select a Zone: **Z1** ▾
B2	Function Type: **Unassigned** ▾	Button Functions: **Custom** ▾ ⓘ
	Add more button function	
B3	Function Type: **Lighting** ▾	Button Functions: **Toggle Zone** ▾
	Add more button function	Select a Zone: **Z1** ▾
		Reference Zone: **Z1** ▾

| 5 | In addition to existing drape functions two additional drape functions are added for drape button in switch button function mapping. |
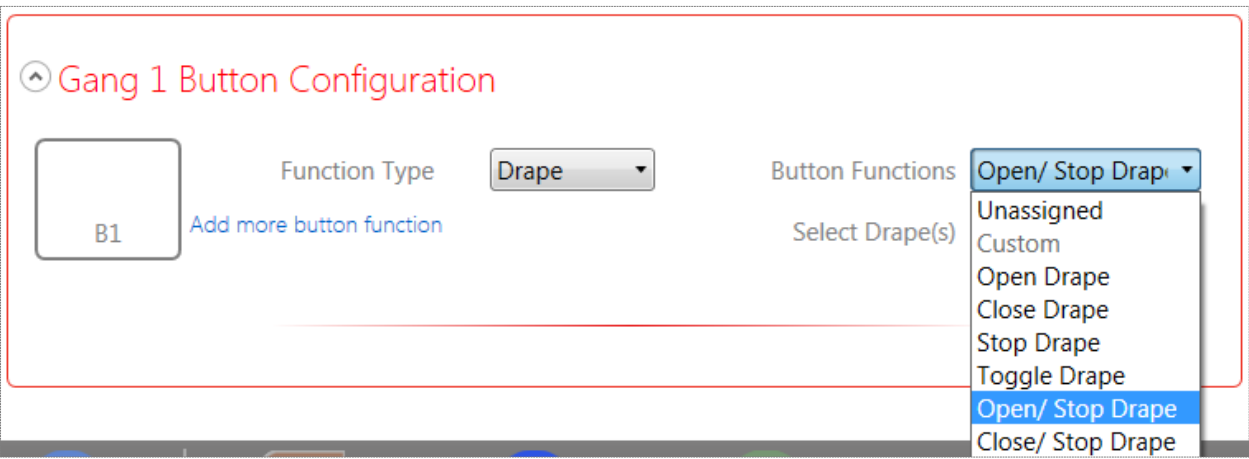
Provided support for drape operations for all drapes in the room.

"All" option added in parameter selection list for drape operations, Logical drape ID set as 0 when drape "All" operation selected
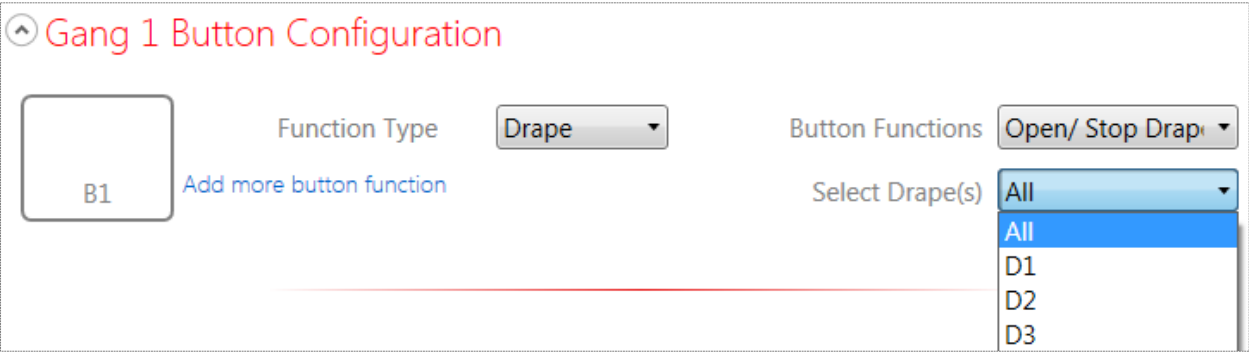
6	Connecting door operation provided for function type Occupancy in switch configurations.
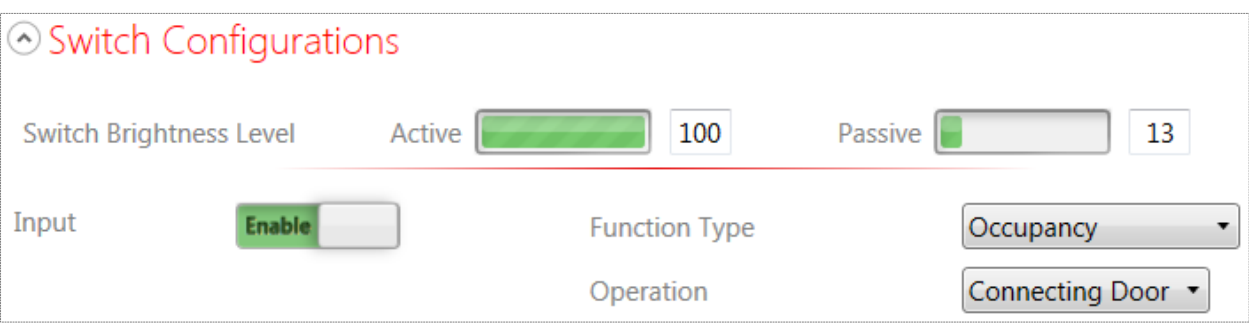
7	Backend WBI feature supported in Evora switch
	Evora output configuration displays backend type and mapped zone.

Evora spare switch can also be configured, that is switch with backend controller not mapped. If user chooses not to map any zone controller to Evora switch then he can do it, this will be considered as Spare switch.

8.6 Version 1.3

S. No.	Enhancements/ changes
1	Thermostat easy editor extended to support following HVAC sub type of VRV/ VRF

Select HVAC Type

○ Generic Single Stage Heat / Single Stage Cool (PTAC, 4 Pipe FCU, 2 Pipe Cool with Electric Heat,
   2 Pipe Change-over managed internally by aquastat in the HVAC unit)

○ Heat Pump O-Type (HpO)

○ Heat Pump B- Type (HpB)

○ 2-Pipe System with Change-Over (Includes Pipe Water Temperature Sensor)

○ 2-Pipe System with Change-Over and Back-up Electric Heat (Includes Pipe Water Temperature Sensor)

○ Cool Only System (No Heat available)

○ Heat Only System (No Cooling available)

● VRV / VRF

   Select VRV type
   ○ Daikin Heat Recovery ⓘ
   ● LG Interface

      Select LG Interface Type
      ● 3 Fan Speed Cool and Heat ⓘ
      ○ 2 Fan speed Cool only
      ○ 2 Fan speed Heat and Cool

   ○ Mitsubishi

e7_1
Relay 1 : Low
Relay 2 : Medium
Relay 3 : High
Relay 4 : Cooling On/Off
Relay 5 : Heating On/Off

X05R_1
Relay 1 : Low
Relay 2 : Medium
Relay 3 : High
Relay 4 : Cool
Relay 5 : Heat
Relay 6 : Fan
Relay 7 : Operation
Relay 8 : Thermo

Select HVAC Type

○ Generic Single Stage Heat / Single Stage Cool (PTAC, 4 Pipe FCU, 2 Pipe Cool with Electric Heat,
   2 Pipe Change-over managed internally by aquastat in the HVAC unit)

○ Heat Pump O-Type (HpO)

○ Heat Pump B- Type (HpB)

○ 2-Pipe System with Change-Over (Includes Pipe Water Temperature Sensor)

○ 2-Pipe System with Change-Over and Back-up Electric Heat (Includes Pipe Water Temperature Sensor)

○ Cool Only System (No Heat available)

○ Heat Only System (No Cooling available)

◉ VRV / VRF

> **Select VRV type**
> ○ Daikin Heat Recovery ⓘ
> ○ LG Interface
> ◉ Mitsubishi
>
> > **Select Mitsubishi Type**
> > ◉ 3 Fan Speed Cool and Heat ⓘ
> > ○ 1 Fan Speed 2 stage Heat & 2 stage Cool ⓘ

e7_1
Relay 1 : Low
Relay 2 : Medium
Relay 3 : High
Relay 4 : Cooling On/Off
Relay 5 : Heating On/Off

	Select HVAC Type
	
	○ Generic Single Stage Heat / Single Stage Cool (PTAC, 4 Pipe FCU, 2 Pipe Cool with Electric Heat, 2 Pipe Change-over managed internally by aquastat in the HVAC unit)
	
	○ Heat Pump O-Type (HpO)
	
	○ Heat Pump B- Type (HpB)
	
	○ 2-Pipe System with Change-Over (Includes Pipe Water Temperature Sensor)
	
	○ 2-Pipe System with Change-Over and Back-up Electric Heat (Includes Pipe Water Temperature Sensor)
	
	○ Cool Only System (No Heat available)
	
	○ Heat Only System (No Cooling available)
	
	◉ VRV / VRF
	
	    Select VRV type
	    ○ Daikin Heat Recovery ⓘ
	    ○ LG Interface
	    ◉ Mitsubishi
	
	        Select Mitsubishi Type
	        ○ 3 Fan Speed Cool and Heat ⓘ
	        ◉ 1 Fan Speed 2 stage Heat & 2 stage Cool ⓘ
	
	e7_1
	Relay 1 : Low
	Relay 2 : Second Stage Heating On/Off
	Relay 3 : Second Stage Cooling On/Off
	Relay 4 : Cooling On/Off
	Relay 5 : Heating On/Off

2	Supported bulk Write configuration at design data (selected device at room type level). • When user selects any programable device at room level as per below screen

- Device summary screen shall be loaded with write configuration option as per below highlighted screen
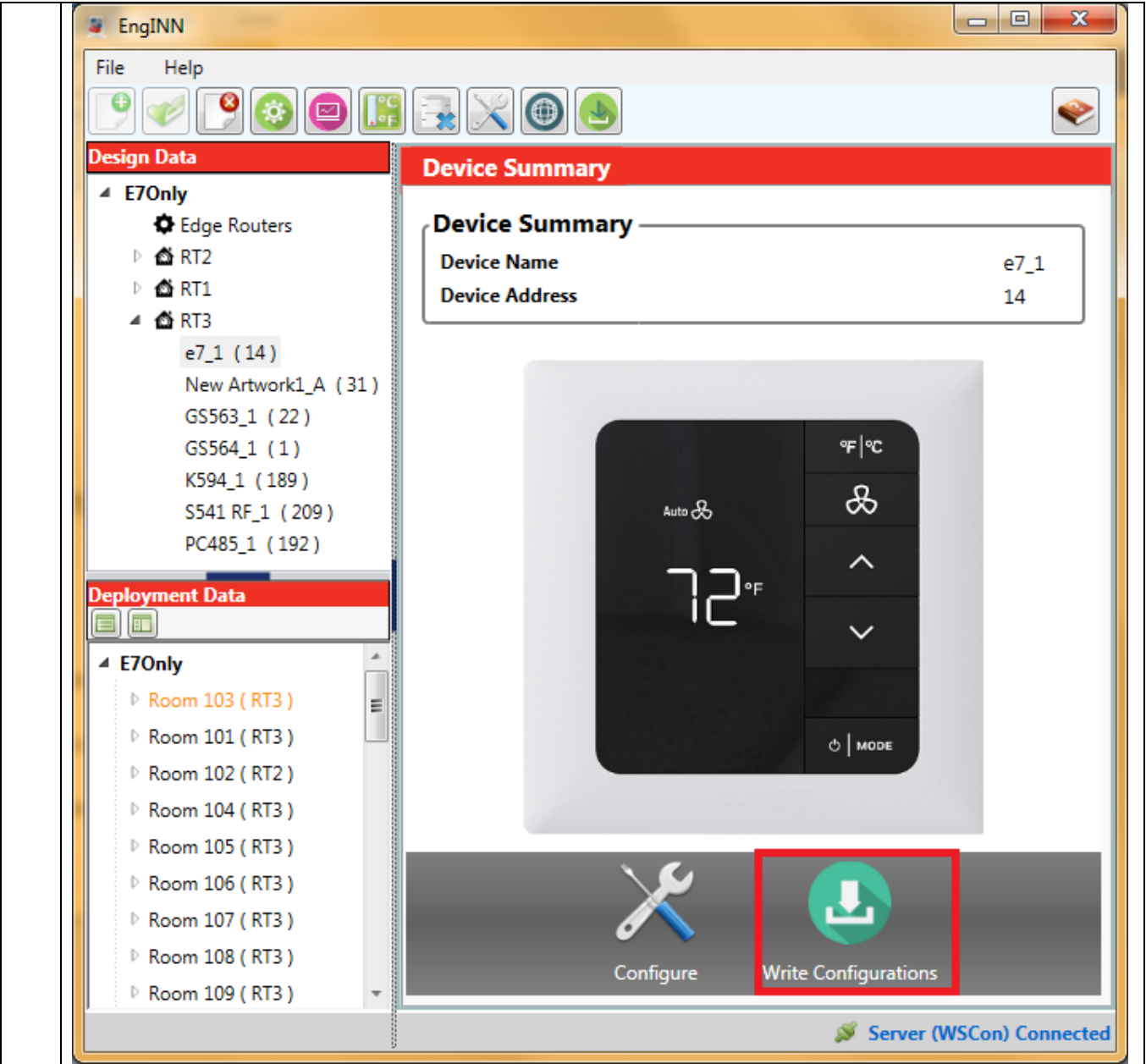
- Option shall only be enabled when associated room instances are exist at deployment data.
- User shall be navigated to below screen for selections of associated room instances
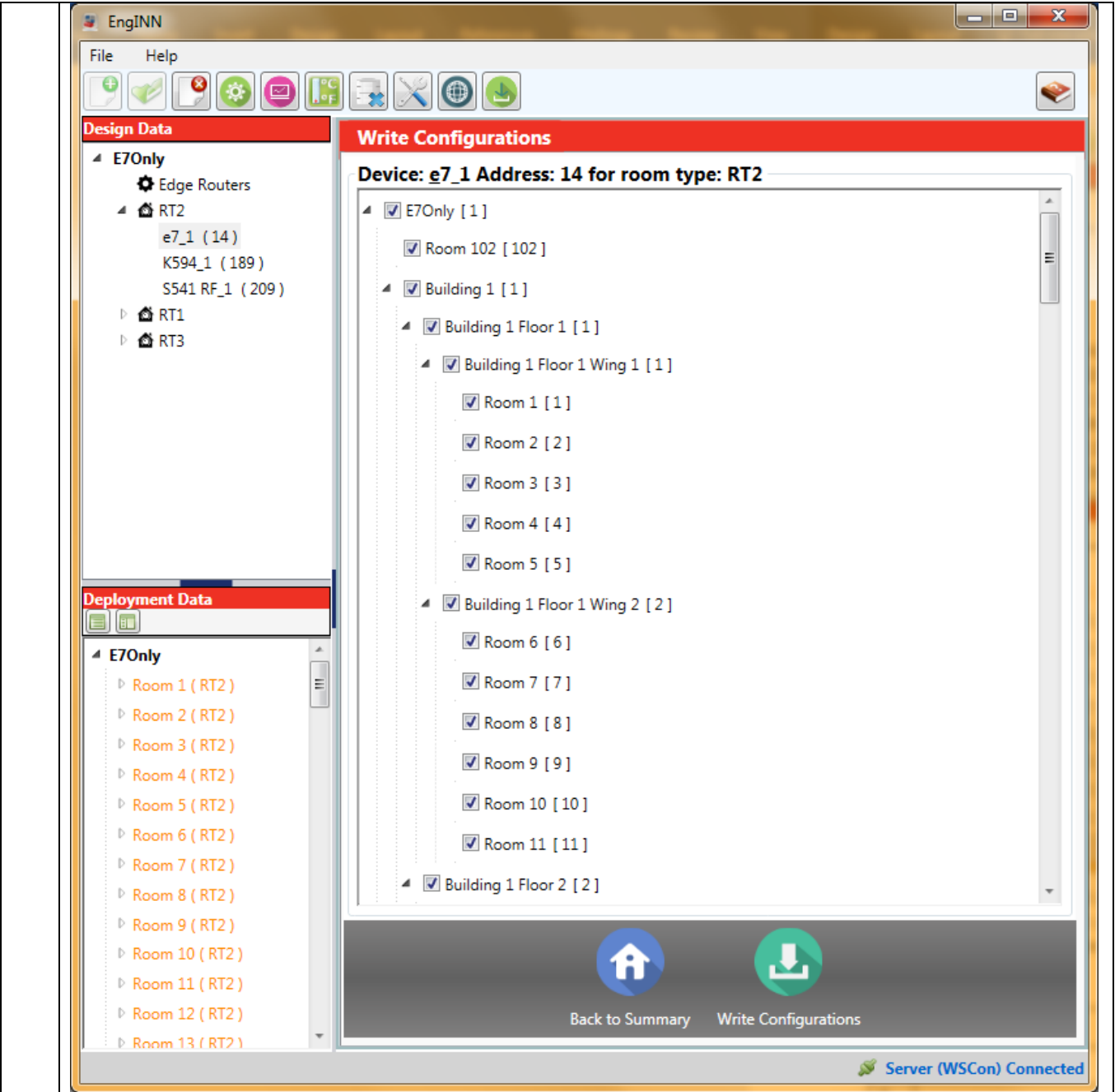
- Screen shall be loaded campus script structure and all nodes are by default checked. User can change selection and click on write configuration to add all tasks in task manager.
- All added tasks are scheduled randomly. Task order grouped based on status means all pending, all running, failed and cancelled are listed in group as per below screen.
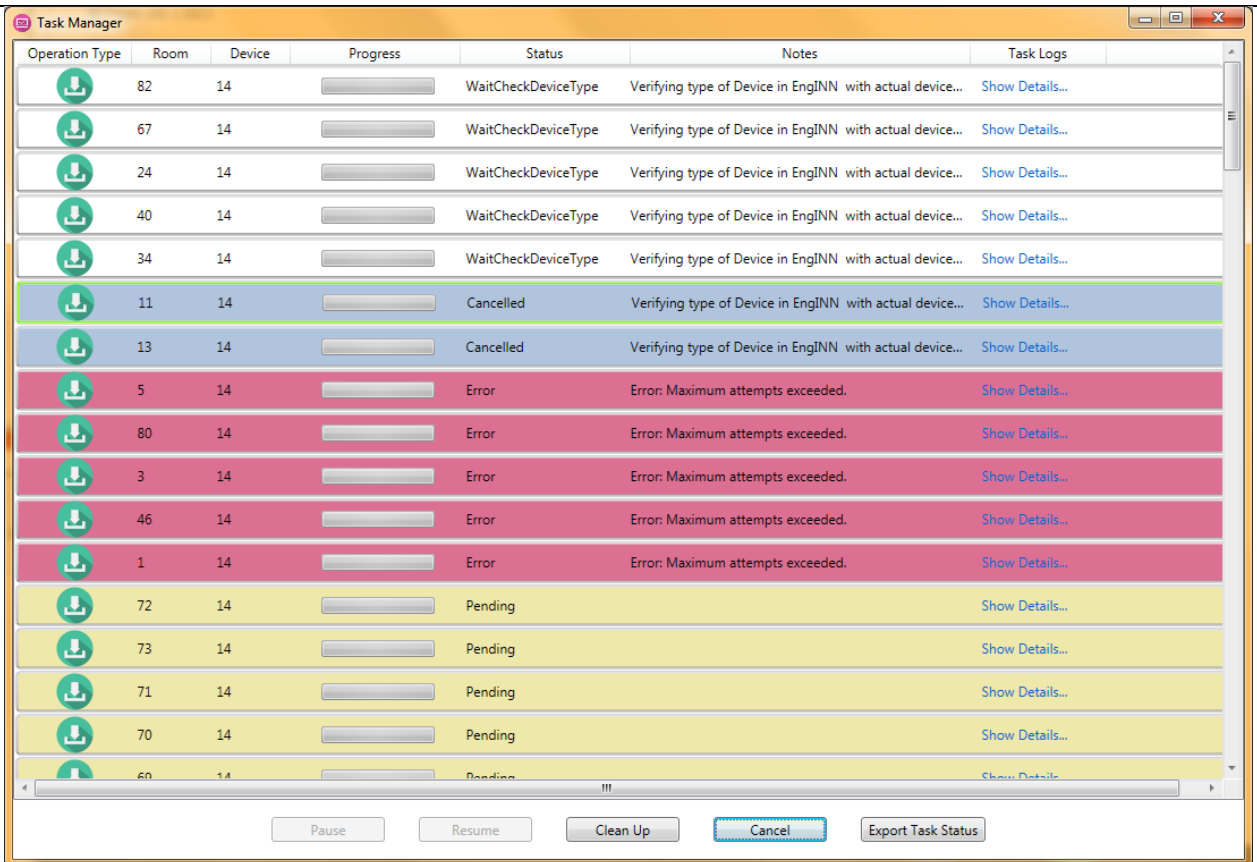
- Task manager shall provide facility to take snapshot of all tasks in portable .csv file using "Export Task Status"

3	Edge router PAN ID range validation 2-254 add in UI
4	Supported easy editor for newly designed Modeva British slandered with oversized buttons
5	Over the air operation only allowed when room instance mapped with valid Edge router.
6	Project file protected using checksum. File modified other than INNtool and EngINN cannot be reopen.
7	Switch instance start from _1 instead of _A
8	Reference zone parameter selection allowed for British Modeva switches
9	Fan map master for medium fan speed disabled when HVAC type selected as HpO or HpB with second stage heat.
10	Significant improvement in PC503 communication with EngINN during read and write device configuration
11	Improved performance of manage room.
12	Help document updated.
13	Drag and drop of S451.RF window device allowed to different HVAC zone. Allowed only when room type configured with multiple zones for suite with multiple S451.RF window devices.

14	Maintain device uploaded and dirty state on every project file reopen to accomplish device instance node color representation red(dirty) or black(uploaded).
15	Corrected application server configuration for multiple HVAC zone with networked and nonnetworked rooms.
16	Enhancements and bug fixes.

8.7 Version 1.2

S. No.	Enhancements/ changes
1	Certifications (CQC-China and CE) details are added in property details screen. Both the options will remain disabled for selection as we are not supporting to select those from EngINN
2	Corrected parameter configuration of X45RA for welcome configurations.
3	Performance improvement for E7 OTA configuration.
4	Assigned RF and Pan id for room instance to 26 and 0 respectively if attached to B576 edge router.
5	Assigned Edge Router's RF channel and Pan Id value to room instance once room is attached to edge router.
6	When Manage Room, option is selected either from toolbar added option for selection of room type in combo box (like edge router). All the valid rooms are listed and enabled, invalid are not enabled for selection.
7	Subnet mask is displayed in decimal as well as Age (in seconds) column added in edge router discovery screen. Age displays time duration from last beacon received from edge router.
8	Shown Point of control summary when user clicks on HVAC zone in case of multi POC room.
9	Added analog output support for e7 and x47.
10	Added ability to sort edge router devices based on column values.
11	Enhanced HVAC equipment operation section in thermostat easy editor page to show relay distribution based on configuration selection as shown in following fig.

HVAC Equipment Operation
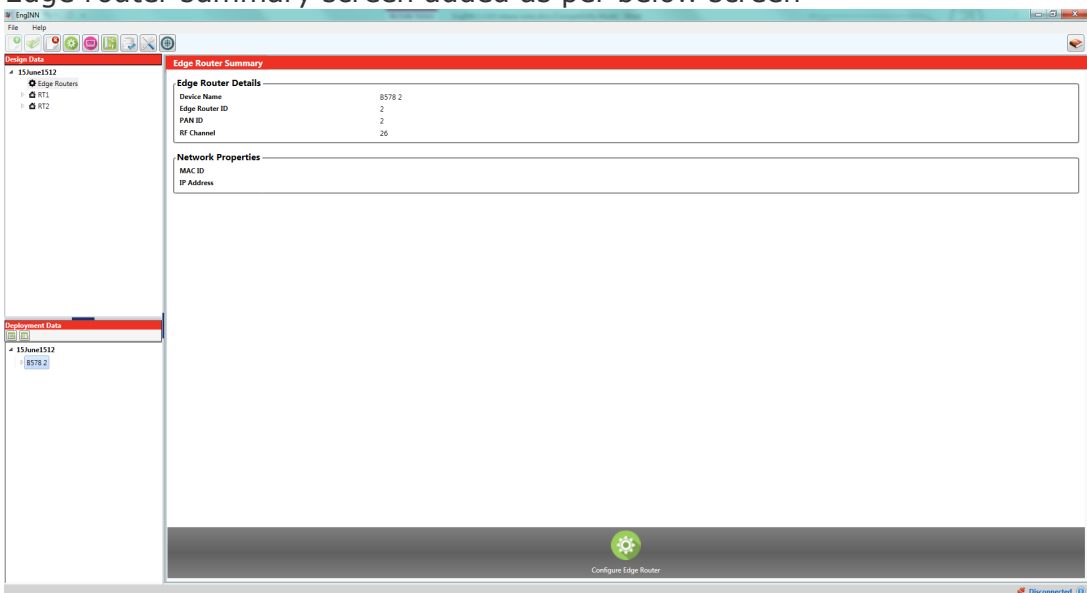
Fan Operation when Temperature Satisfied (Room Occupied)   ○ Fan Low   ● Fan Off

HVAC & Valve Type   PTAC   [Change]

Fan Type/ Fan Speed   Traditional fan type(Low,High)   [Change]

e7_1   X47s_1
Relay 1 : Low   Relay 1 : Disabled
Relay 2 : Disabled   Relay 2 : Heating Close Floating
Relay 3 : High   Relay 3 : Cooling Close Floating
Relay 4 : Disabled   Relay 4 : Cooling Open Floating
Relay 5 : Disabled   Relay 5 : Heating Open Floating

8.8 Version 1.1

S. No.	Enhancements/ changes
1	Allow user add Edge router in deployment data tree section.

Following are the Edge router features.

- Deployment tree shall provide facility to view room instance under edge router node if associated.
- By default only room instances list shall be shown in deployment tree.
- Deployment tree shall have button to switch view between default and edge router linking view. Both button shall have tooltip as "Displays full list of Rooms for this property" & "Displays full list of Rooms along with their association with Edge routers"
- Room instance node shall show in orange color when edge router linking missing with tooltip as "Cannot communicate with Server because of no linkage with Edge Router".
- Edge router summary screen added as per below screen

 |

- Edge router id will be start by default 2. User can set to 1 if needed.
- Edge router id range is between 1 to 65535.
- Allow user to drag and drop multiple room instance on valid Edge router. Tooltip shall be shown when drop not allowed.
- PC803 only supports 1 room instance to associate and B576 shall support 70 room instances. Validation handled with proper tooltip for user.
- Edge Router Teach by Service Mode supported.
- Allow user to discover available edge routers. When any new edge router discovered and not found in project file than show that as Ad-hoc. Ad-hoc further shall be added to project file.
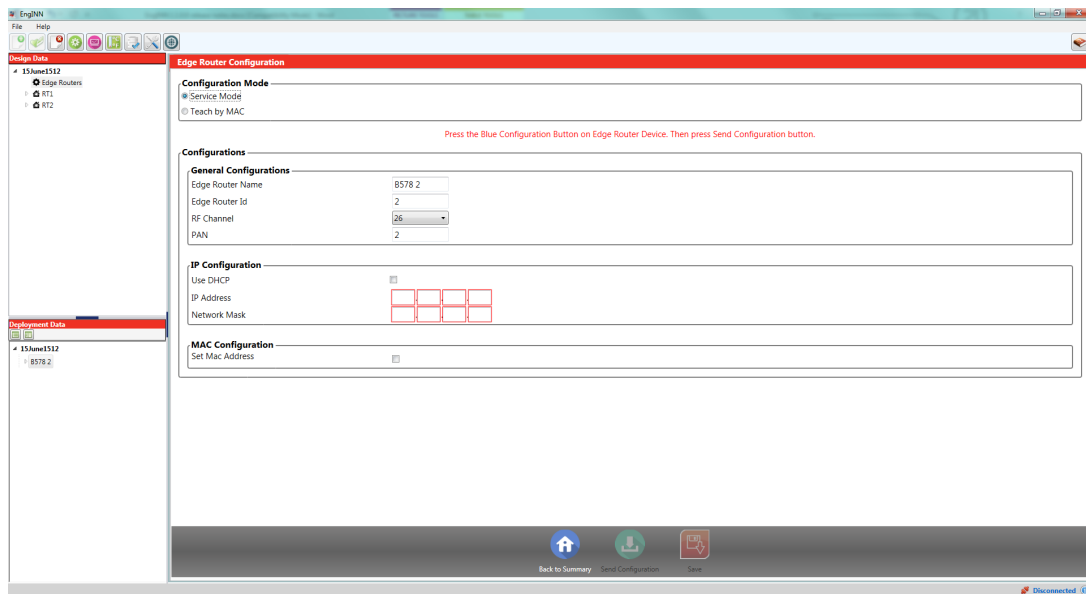- Allow user to manage edge routers as per below screen.

Figure 2 : Edge Router Configuration with Service Mode
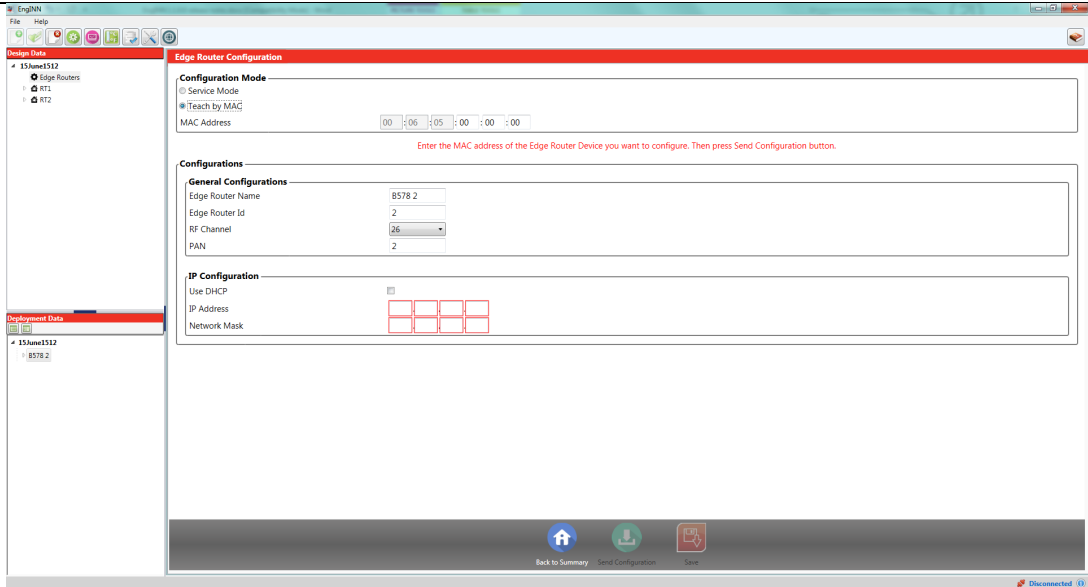
Figure 3 : Edge Router Configuration with Tech by MAC
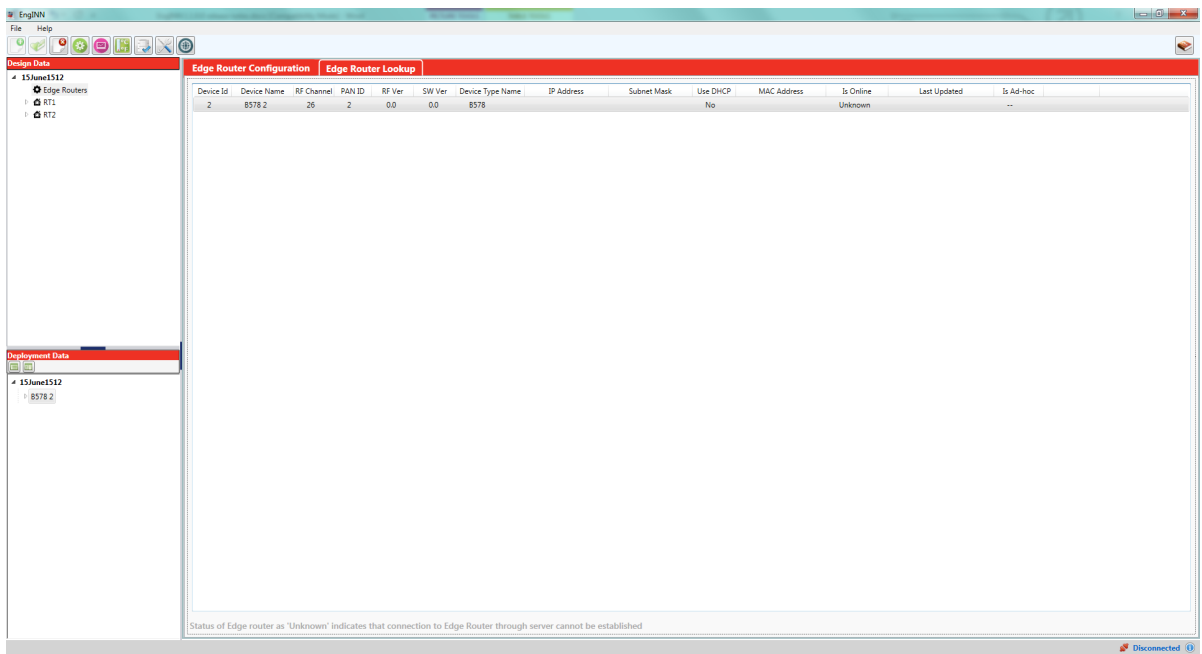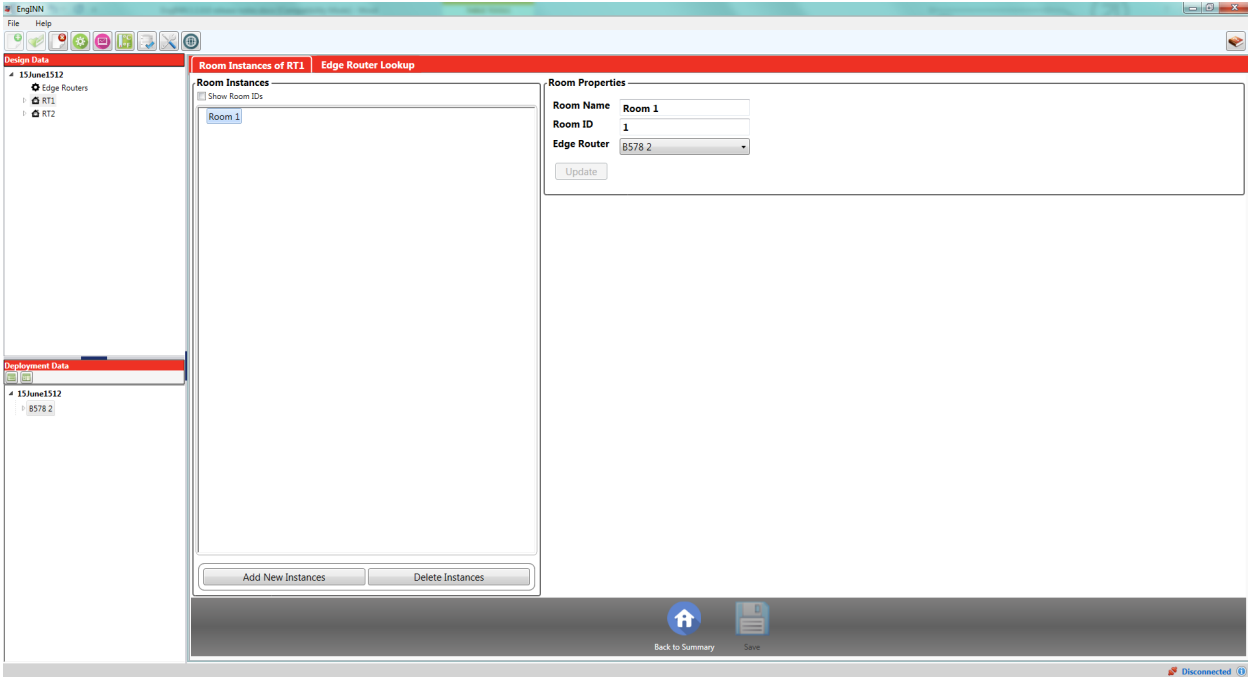
- Provide screen for edge router lookup as per below


Figure 4 : Edge Router lookup screen

- Edge Router configurations shall run as background task. Task status shall be available in task window.

| 2 | Provided facility to associate or modify room instance linking with an Edge router while adding/ modifying. |

3	Changed the text "Download Configuration" to "Read Configurations" AND "Upload Configuration" to "Write Configurations"
4	Supported B578-L Edge router in EngINN
5	Manage rooms layout changed to list view as per below screen. Add, update and delete operations modified. This will allow to manage room instances for selected room type.
6	On and Off switch function added for relay type of circuits.
7	Added drape run time property for advance configuration.
8	Relay zones shall be disabled for Dim up and Dim down switch function.
9	Changed text for HVAC & Valve type as per follow • Heat Pump South to Heat Pump B-type • Heat Pump North to Heat Pump O-Type
10	Disabled Upload, download, reset etc buttons when room has device address conflict.
11	Updated all UI where X45RA show with channel number, Now channel shall show in pair if paired. Example 1-4, 2-6, 3-7 & 4-8.
12	Improved "Manage Drapes & Circuit" screen performance.
13	Toggle zone allowed for relay kind of zones

14	Fixed the issue related to Virtual output for Evora switch, in few cases INNtool was generating virtual output even if the zone controlled by the switch itself.
15	Added the new value of DeviceType for E-series of Thermostat.
16	US Gang Modeva Switches: With Single Shelf s/w all version of 5 buttons (along with Slider) Modeva switches can be supported by tools.
17	Linking of Suites to Room type and Edge Router is supported.
18	Deployment Data tree view is updated to show Suites.
19	Improved trace message window performance and resolve application sluggish. Horizontal auto scroll bar position shall not reset to home on every new message.
20	Added 2 new SAC alarm description SAC_ALARM_DEVICE_DRAPE_STATUS = 0x0036 and SAC_ALARM_RING_BELL = 0x0010
21	Task window shall automatically open when user add any task like read write configuration etc.
22	New icon added for EngINN tool. Same icon shall be shown with background task.
23	Open and New project shall be disabled with tool tip when project already opened.
24	Tooltip icon and text for PAN ID is shown in room summary.
25	US Gang Modeva Switches: Fixed the issue related to alignmnet of virtual index for dual gang US Modeva switch
26	Fixed the Medium Fan speed related configuration issue
27	Updated Equipment Type parameter under 9:18.
28	Parameter values correction for Relays corresponding to selected HVAC type
29	Enhancements and bug fixes

S. No.	Known Issues
1	Below assert message shall be shown when communication medium is server. Frequency : Very low Work around : Abort EngINN and restart
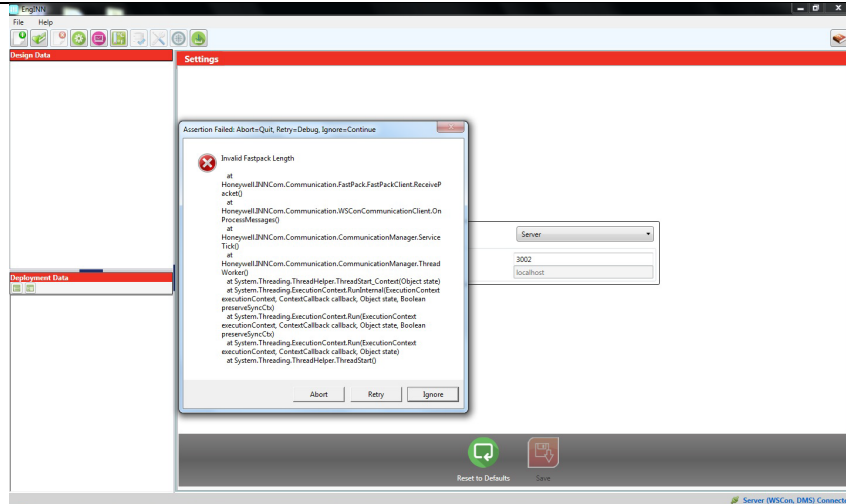
2		Reselection of same tree node not updating right hand panel when multi tab present. As shown in below screen