Building Integration Platform (BIP) Commissioning Guide

For BIP v1.11

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Important changes are listed in Document Revision History at the end of this document.

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What is BIP Commissioning?

The Building Integration Platform (BIP) enables data sharing between building systems. The BIP is made up of component services that can be reused for multiple system integrations.

BIP Commissioning is used to commission spaces, map devices with spaces, map spaces with Location Service system, etc. This application may only be used by the administrator who is assigned the role **Admin with Web Login**.

After installation of the BIP Commissioning tool, a shortcut appears on your desktop that launches the application (This icon is only available on deployment server).

BIP Commissioning features

This application is used for:

- System Configuration
- Local Database User Creation
- Resource Registration
- User Management
- Space Management
  - Space Commissioning
  - Space Mapping
  - Conference Room Mapping
- Device Management
  - Access Control
  - HVAC
  - Lighting
  - Elevator
  - iBeacon
- Scene Commissioning
- Documents
- About

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BIP Commissioning Access

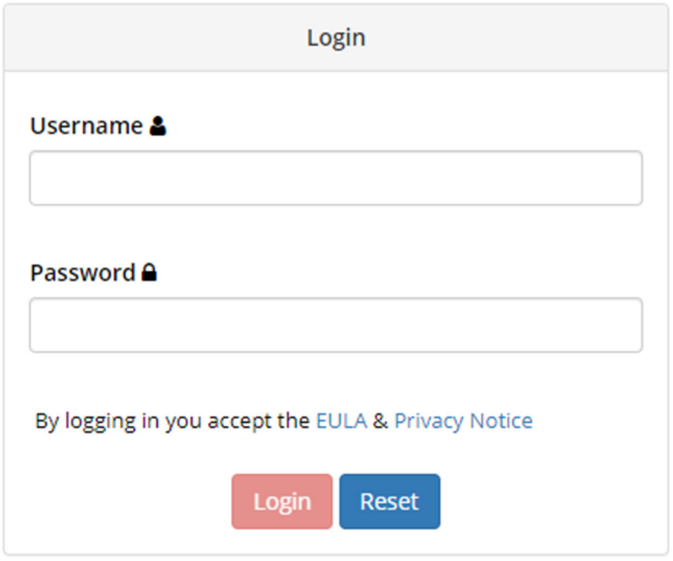
To access the BIP Commissioning Tool, open the application URL in a web browser.

URL: `https://<ServerIPAddress/Domain>:8443/BIPCommissioning/#/login`

NOTE Replace <ServerIPAddress> with the actual IP Address or domain name of the server.

Login

On opening the URL, the initial login screen appears:



A pre-configured user with **Admin with Web Login** access privileges is included with the product. Use this pre-configured user's credentials when logging into the application for the first time:

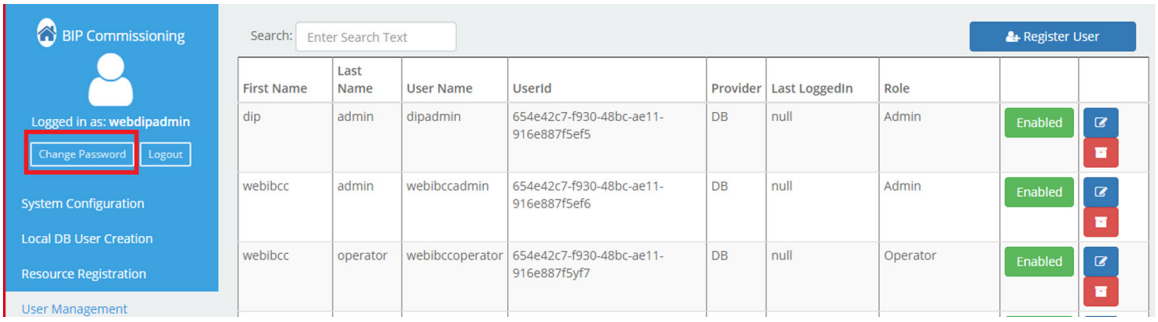
Username: webadmin

Password: adm@123

After the first login you will be prompted to change the password for this user. You may then create additional admin users, if needed. For more information see *User Management* (page 18).

Change password

You can change your password after login by clicking **Change Password**.



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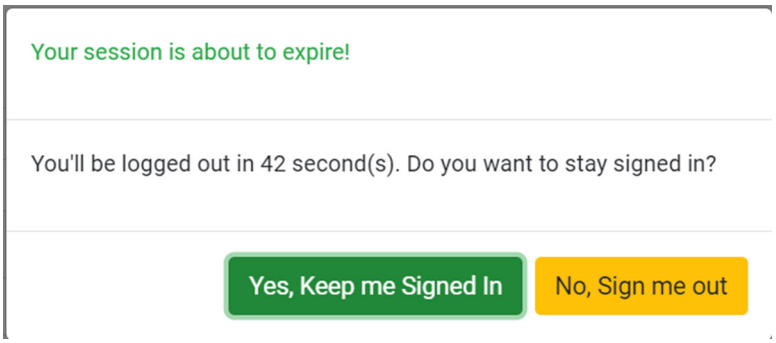
Session expiration

For security reasons, the BIP Commissioning application displays a session expiration alert after a period of 20 minutes of inactivity. If no action is taken, the user is logged out.



System configuration

You can configure all end systems using the System Configuration module.

List of system configurations

The table below describes the action performed by each icon.

This icon	Performs this action.
	View
	Edit
	Delete
	Heartbeat

Add system configuration

1. To add a new system configuration, click **Add New**.
2. Select a **System Type**. The following sections describe how to register each system type.

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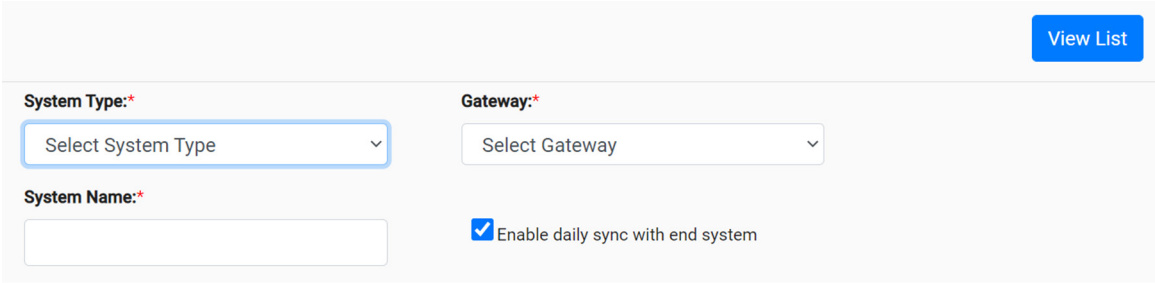


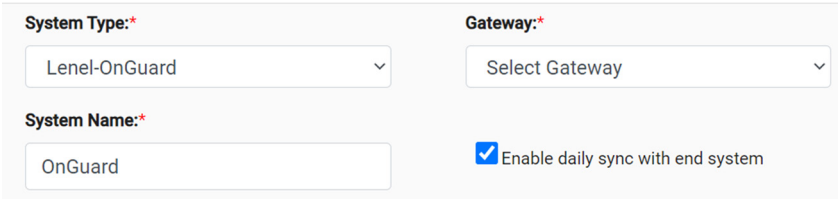
Enable daily sync with end system

This option enables the Semantic Knowledge Base background process to synchronize with the end system data changes (if any) daily.

NOTE When a new System Configuration is saved using **Submit**, the application attempts to connect to the end system. If the connection fails, validate the configuration details are correct, and that the BIP server has network access to the end system.

Register Lenel-OnGuard System

For security reasons, the BIP Commissioning application displays a session expiration alert after a period of 20 minutes of inactivity. If no action is taken, the user is logged out.



Field	Action
System Type	Select **Lenel-OnGuard**.
Gateway	Select the gateway ID.
System Name	Enter a system name for Lenel-OnGuard. **NOTE** When integrating with the ALC-WebCTRL or Carrier i-Vu system, the **System Name** must be **OnGuard**.
IP/Hostname	Enter the IP address or domain name of the end system server.
Port	Enter the OpenAccess Connector port on the end system server.
Username	Enter username.
Password	Enter password.
Interface Name	Enter interface name for the end system from one of these: "MyWay", "WebCTRL", or "i-Vu".

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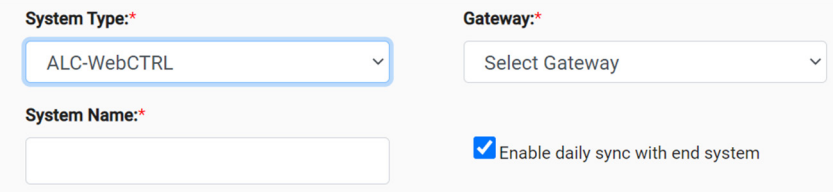
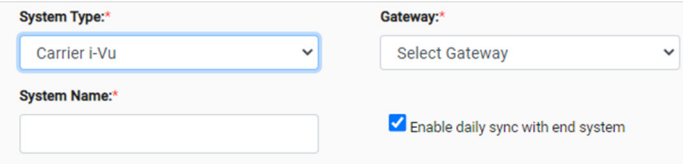
Register ALC-WebCTRL System



Field	Action
System Type	Select **ALC-WebCTRL**.
Gateway	Select the gateway ID.
System Name	Enter a system name for ALC-WebCTRL.
IP/Hostname	Enter the IP address or domain name of the end system server
Port	Enter a valid port.
Client ID	Enter a valid client ID.
Client Secret	Enter a valid client secret.

Register Carrier i-Vu System



Field	Action
System Type	Select **Carrier I-Vu**.
Gateway	Select the gateway ID.
System Name	Enter a system name for i-Vu.
IP/Hostname	Enter the IP address or domain name of the end system server.
Port	Enter a valid port.
Client ID	Enter a valid client ID.
Client Secret	Enter a valid client secret.

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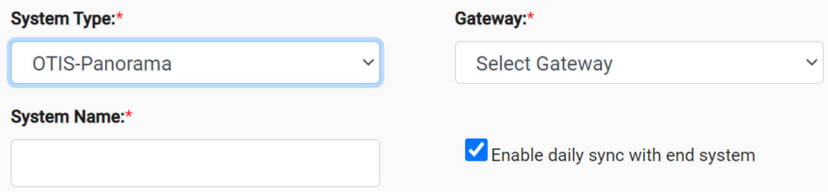
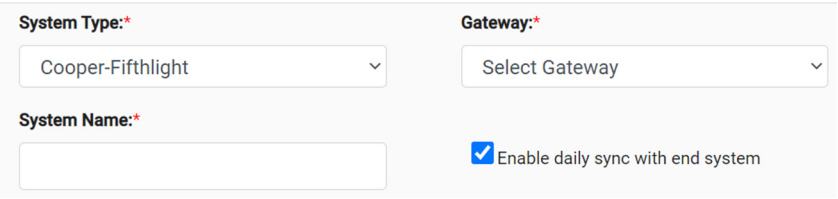
Register OTIS-Panorama System



Field	Action
System Type	Select **OTIS-Panorama**.
Gateway	Select the gateway ID.
System Name	Enter a system name for the OTIS-Panorama system, for example, EMS.
IP/Hostname	Enter the IP address or domain name of the end system server
Port	Enter a valid port.

Register Cooper-Fifthlight System



Field	Action
System Type	Select **Cooper-Fifthlight**.
Gateway	Select gateway ID.
System Name	Enter a system name for Cooper-Fifthlight.
Protocol	`http` or `https`
IP/Hostname	Enter the IP address or domain name of the end system server.
Port	Enter a valid port.
Username	Enter username.
Password	Enter password.

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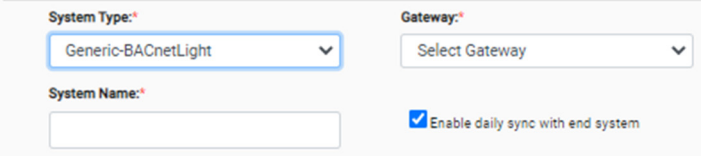
Register Generic-BACnetLight System



Field	Action
System Type	Select **Generic-BACnetLight**.
Gateway	Select the gateway ID.
System Name	Enter a system name for BACnetLight.
BIP GatewayIP Address	Enter the IP address for the gateway (selected above).
Port	Enter the port for establishing communication to BACnet server, for example, `74808`.
Subnet	Enter the subnet IP address, for example, `255.255.240.0`.
Network Numbers	Enter a comma-separated list of the valid BACnet devices network numbers, for example, 1,2. **NOTE** For unicast, enter `0`.
Enable datapoints filter	Select this option only if you want to configure the datapoints filter. Enter values for the fields as described below. • **Datapoints filtering priority** Possible values: types, range, names • **Datapoint types to filter** Possible values: analogValue, binaryValue • **Datapoint ID range to filter** For example, 0-100 • **Datapoint names to filter** Enter a comma-separated list of names.
Enable BBMD support	Select this option only when you want to configure the BBMD support. Enter a value for the field below. **BBMD IPv4 Addresses** Enter a comma-separated list of IP addresses for the BACnet router supporting BBMD. **NOTE** Datapoint filter and BBMD support is disabled for unicast. Select **Enable Broadcast** to enable these options.
Enable Broadcast	Select this option only when data packet broadcast feature support is available for the network/subnet. **NOTE** When you select **Enable Broadcast**, the **BACnet Device Object configuration JSON** data is optional. If JSON data is provided, the driver will do both unicast and broadcast.

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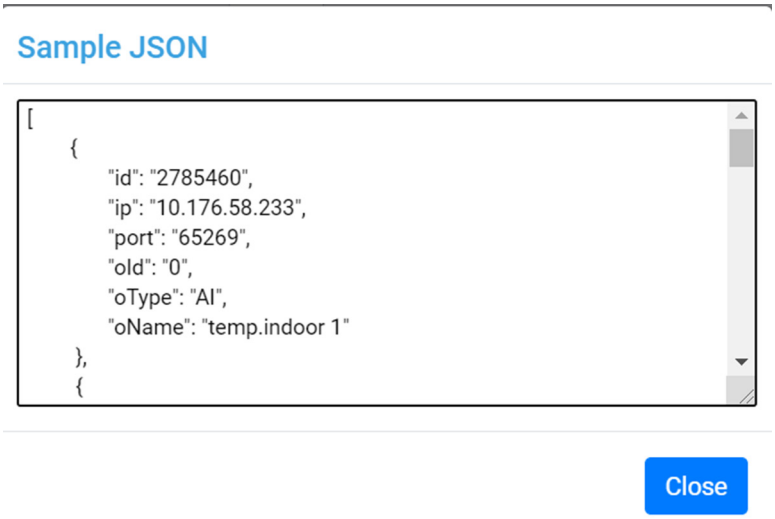
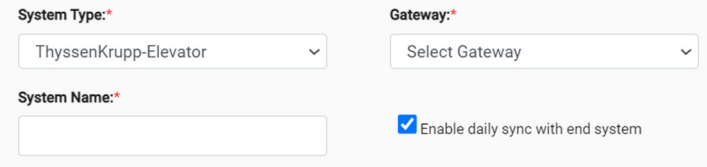
Field	Action
CACnet Device Object configuration JSON	Enter valid BACnet device object configuration data in JSON format. Sample JSON data can be viewed by clicking **Sample JSON**.



Register ThyssenKrupp-Elevator System



Field	Action
System Type	Select **ThyssenKrupp-Elevator**.
Gateway	Select gateway ID.
System Name	Enter a system name for ThyssenKrupp-Elevator.
BIP Gateway IP Address	Enter the IP address of the gateway for communication to the TK server.
Enable Broadcast	Select this option only when data packet broadcast feature support is available for the network/subnet. **NOTE** On selection of **Enable Broadcast**, the **Group Elevator Configuration JSON** option is disabled (as that information is only required for the unicast option).

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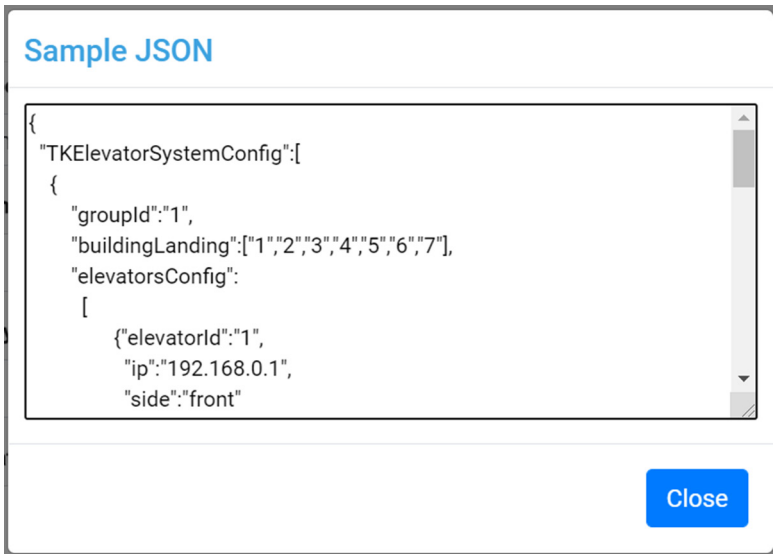
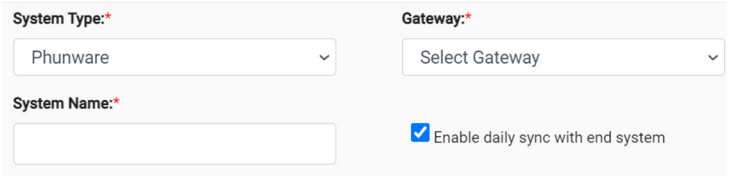
Field	Action
Group Elevator Configuration JSON	Enter valid group elevator configuration data in JSON format. Sample JSON data can be viewed by clicking **Sample JSON**. 

Register Phunware Location Service



Field	Action
System Type	Select **Phunware**.
Gateway	Select gateway ID.
System Name	Enter a system name for Phunware.
IP/Hostname	Enter the IP address or domain name of the end system server.
Access Key	Enter a valid access key.
Signature Key	Enter a valid signature key.
App Id	Enter a valid application ID.
Enable Proxy:	If the server is running behind a proxy, select this option to configure the proxy details. Enter values for the fields as described below. • **Proxy Hostname** Enter a valid proxy IP address or domain name. • **Proxy Port** Enter a valid proxy port number.

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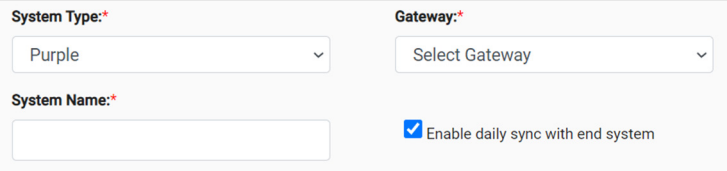
Register Purple Location Service



Field	Action
System Type	Select **Purple**.
Gateway	Select a gateway ID.
System Name	Enter a system name for Purple.
IP/Hostname	Enter the IP address or domain name of the end system server.
Client Api Key	Enter a valid client API key.
Enable Proxy	If the server is running behind a proxy, select this option to configure the proxy details. Enter values for the fields as described below: • **Proxy Hostname** Enter a valid proxy IP address or domain name. • **Proxy Port** Enter a valid proxy port number.

NOTES

- You can configure either Phunware or Purple Location Service, but not both.
- Ping functionality is not implemented for Purple and Phunware.

Register Pharos System

Field	Action
System Type	Select **Pharos**.
Gateway	Select gateway ID.
System Name	Enter a system name for Pharos.
Protocol	Enter protocol configured at end system (http or https).
IP/Hostname	Enter the IP address or domain name of the end system server.
Port	Enter a valid port, for example, 80.

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Field	Action
Username	Enter username.
Password	Enter password.

NOTE If Protocol value is "https", username and password fields are mandatory.

Edit System configuration

Follow the instructions below to edit an existing system.

1 Click the **Edit** icon from the **System Configuration** list.
2 Modify the required values and click **Submit**.

Special instructions

Lenel-OnGuard

After editing the Lenel-OnGuard system configuration, follow the steps below to re-initiate events from OnGuard.

1 Click the **Ping** icon after submitting changes, and verify the ping is successful.
2 Restart the **MyWay App Servic**es if installed.
3 Restart the **BAS OnGuard** integration add-on if installed.

Generic-BACnetLight

After editing the BACnetLight commissioning data, manually restart the gateway service.

ThyssenKrupp-Elevator

After editing the TK commissioning data, manually restart the gateway service.

View System Configuration

To view system configuration details, click the **View** icon .

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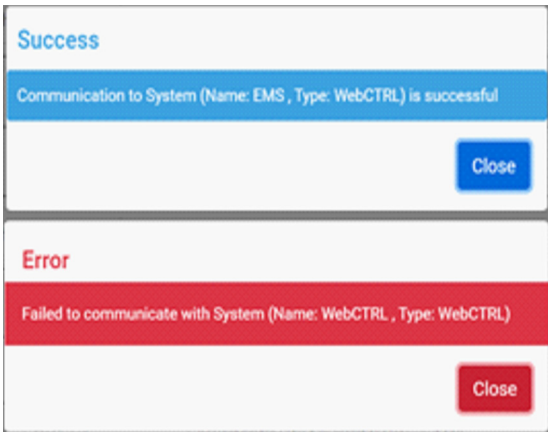
Ping System Status

To determine if the configured system is communicating with the end system, click the **Ping** icon .



Local Database User Creation

This feature is used for adding DB users directly into the database. Other users are verified and loaded from AD or SSO data sources.

Add User

Admins can create local users.

1. On the **Local DB User Creation** tab, click **Add User**.
2. Provide the user's first name, last name, username, password and email address.
3. Click **Create**.

NOTES

- You can clear the data fields while creating a user by clicking **Clear**.
- To navigate back to the previous screen, click **View User**.

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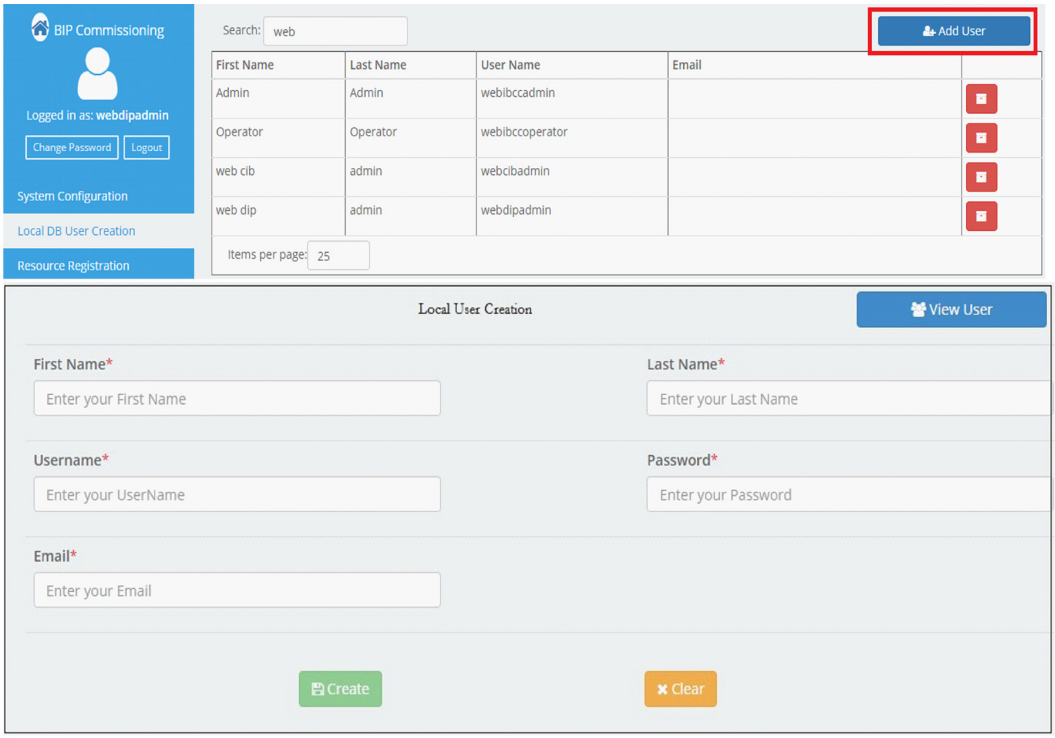
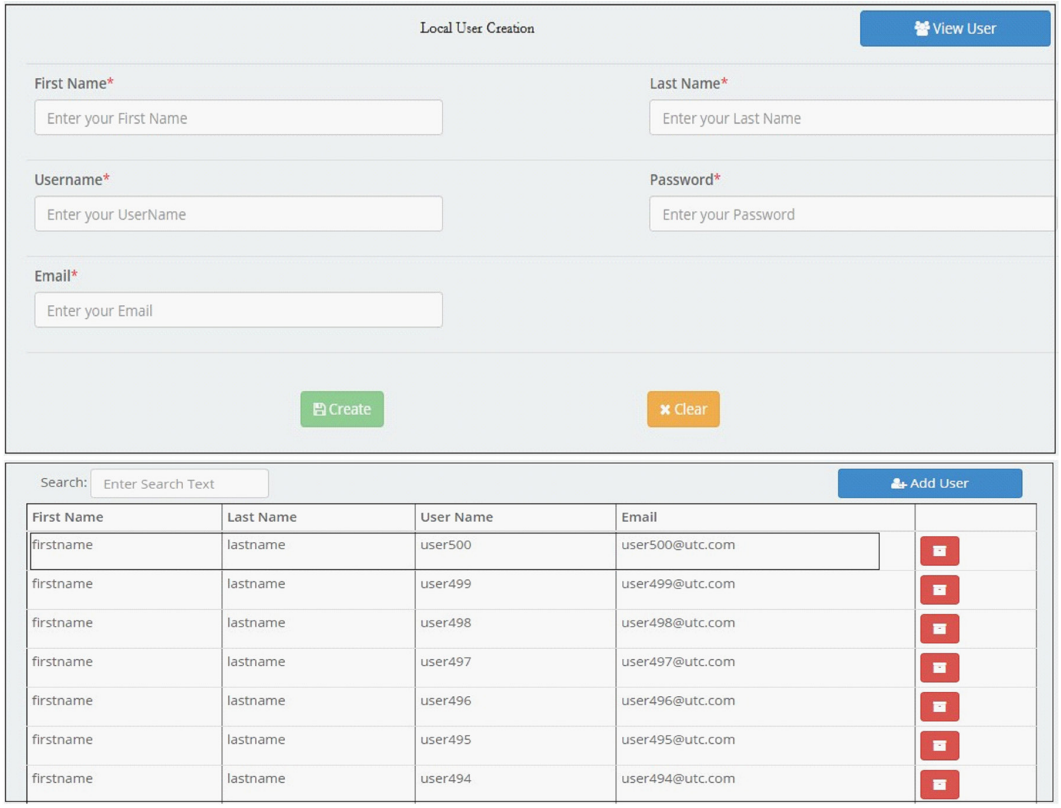


View User

On the **Local DB User Creation** tab, click **View User** to view a list of users, including any newly-created users.



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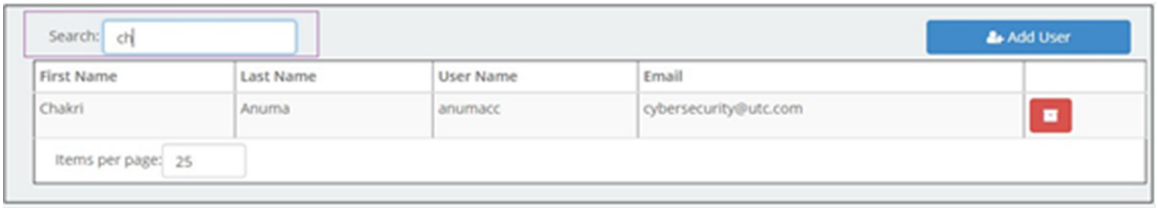
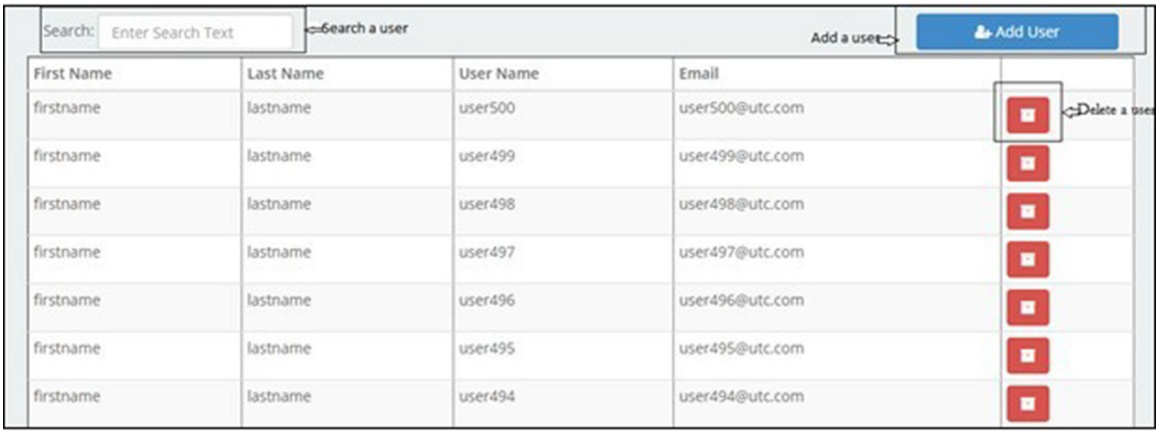
Search User

Search for a user with the **Search** box. Type a user name and results are displayed.



Delete User

View a list of all the registered users with the option to delete users.



Resource Registration

In **Resource Registration**, you can register MyWay devices and other client applications which can access the BIP resources.

View Client

1. Go to the **Resource Registration** tab to see a list of clients.
2. View the resource list by clicking **Add Resources**, and then clicking **View Resource**.

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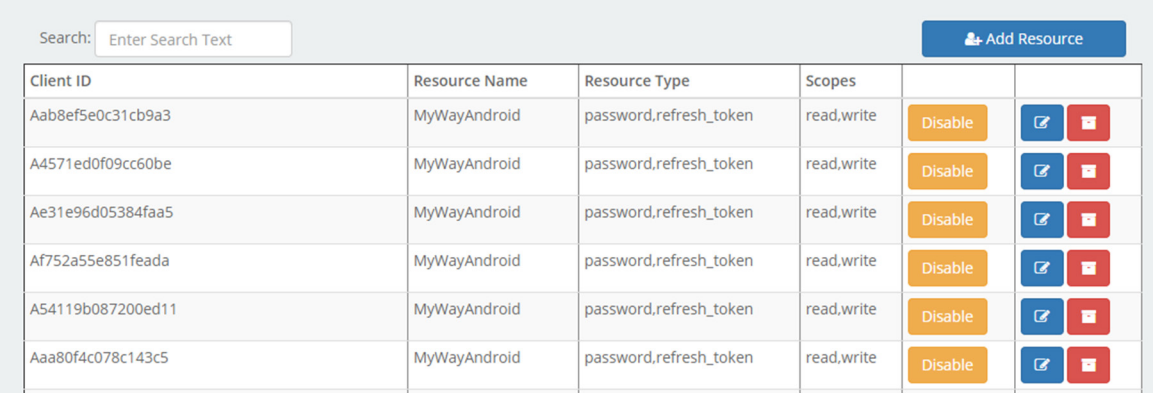
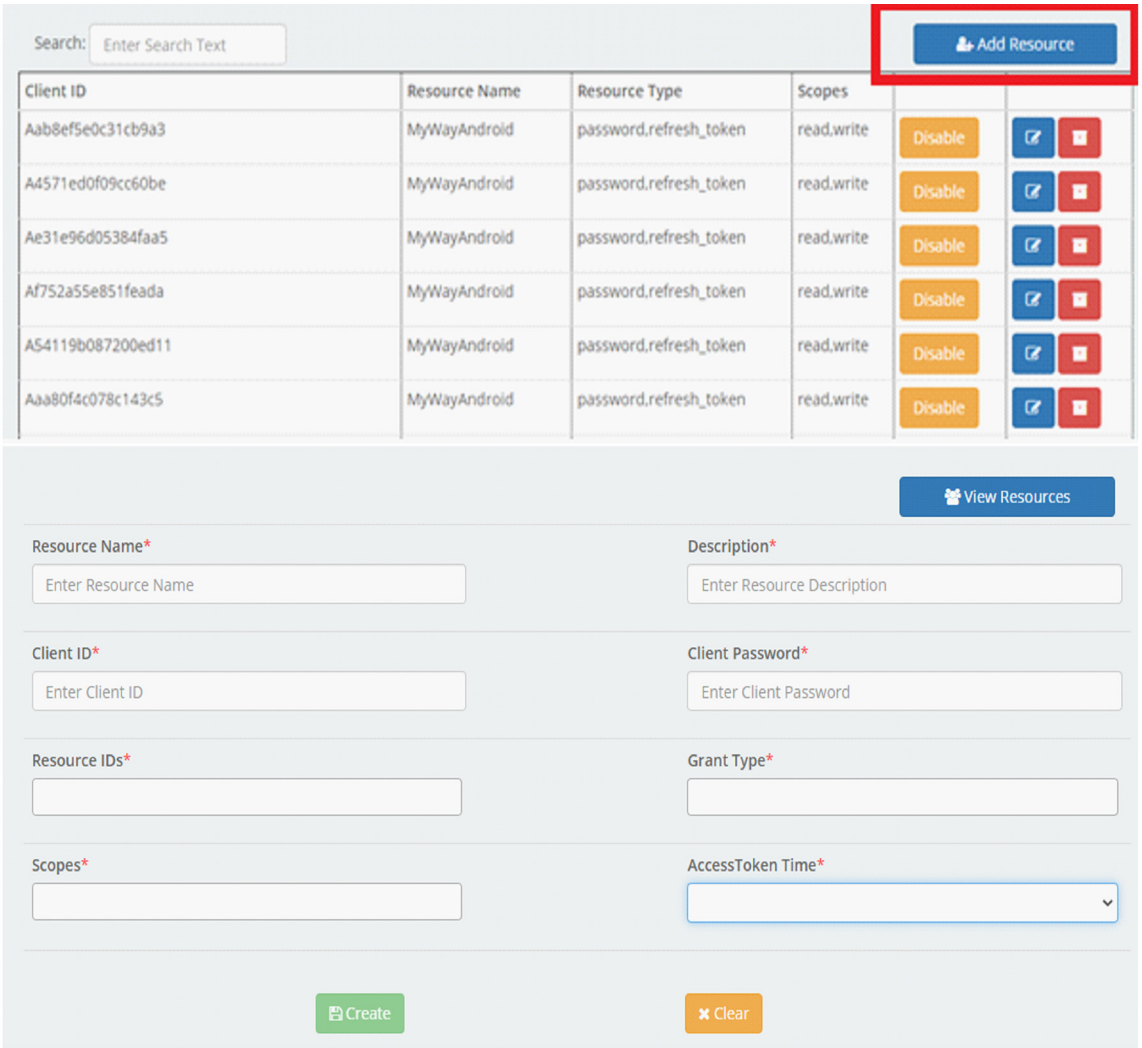


Add Resource

1 Click **Add Resource** to add new Resources.



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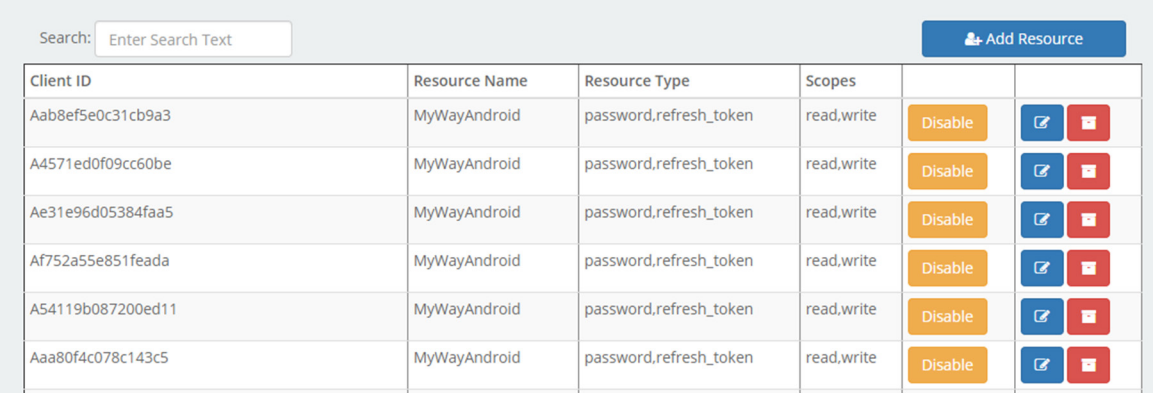
Field	Action
Resource Name	The resource name should be between 3 and 20 characters.
Description	This field provides more information about the resource. It should be between 3 and 20 characters.
Client ID	The Client ID should be between 3 and 20 characters.
Client Password	This password must be 6 to 20 characters long, and must contain at least one of each of the following: **Uppercase letter** **Lowercase letter** **Number** **Special character**
Resource IDs	This drop-down allows you to select multiple services that the new client can use.
Grant Type	This drop-down allows you to select any, or all, of the following options: **Service** **Native** **Native refresh**
Scopes	This drop-down allows you to select any, or all, of the following options: **Read** **Write** **Openid**
Access Token Time	This drop-down allows you to select token validity period, for example, 1 week, 30 days, 1 year

2 After completing all the fields, click **Create**. Clicking **Clear** clears all data fields.

Disable/Enable Client

Disable any client by clicking **Disable**.



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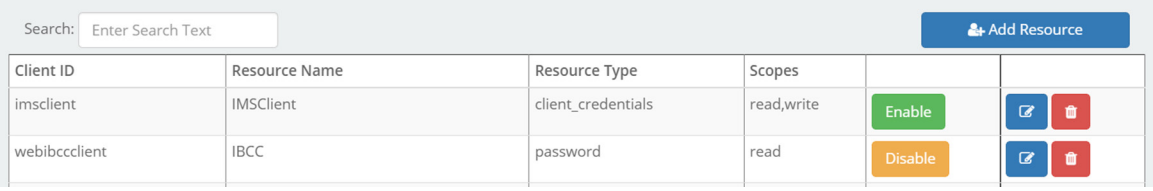
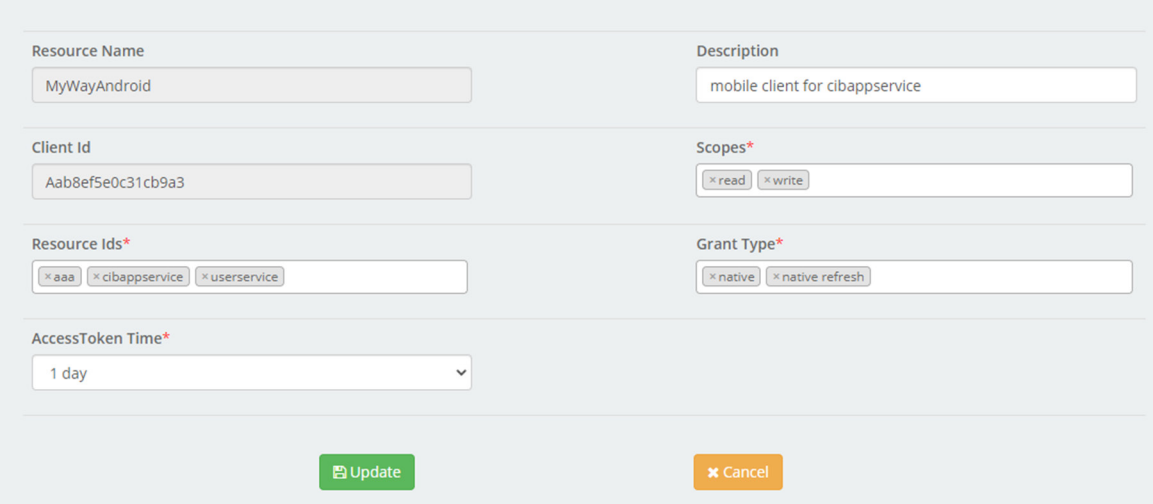
Enable any disabled client by clicking **Enable**.



Edit Client

You can edit client details like Scopes, Resource IDs, Grant Type and Access Token Time. To edit a record:

1. Click the **Edit** icon next to the client.
2. Update any of the required fields and click **Update**.



Delete Client

Delete any client by clicking the **Delete** icon .

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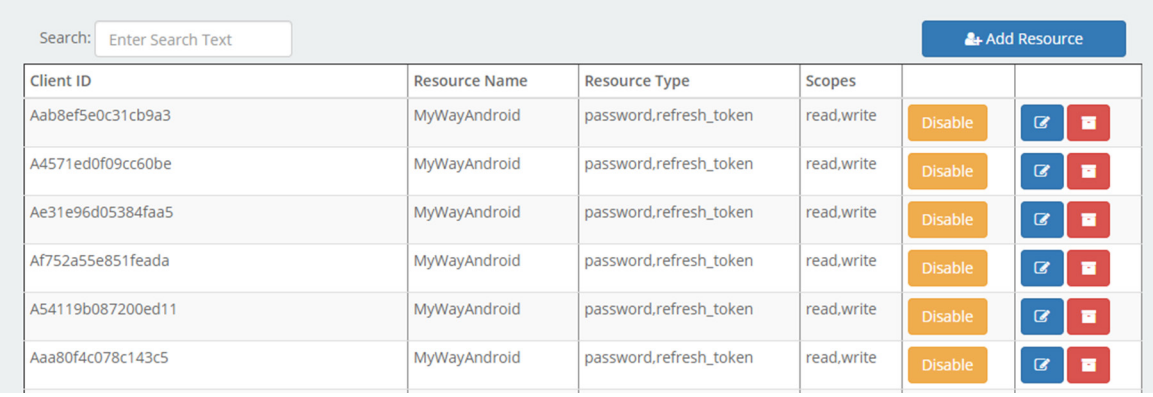
Search Client

Search for a client by typing the client ID in **Search**.



User Management

Use the User Management module to register BIP users of the following types:

- Active Directory (AD)
- Single Sign-on (SSO)

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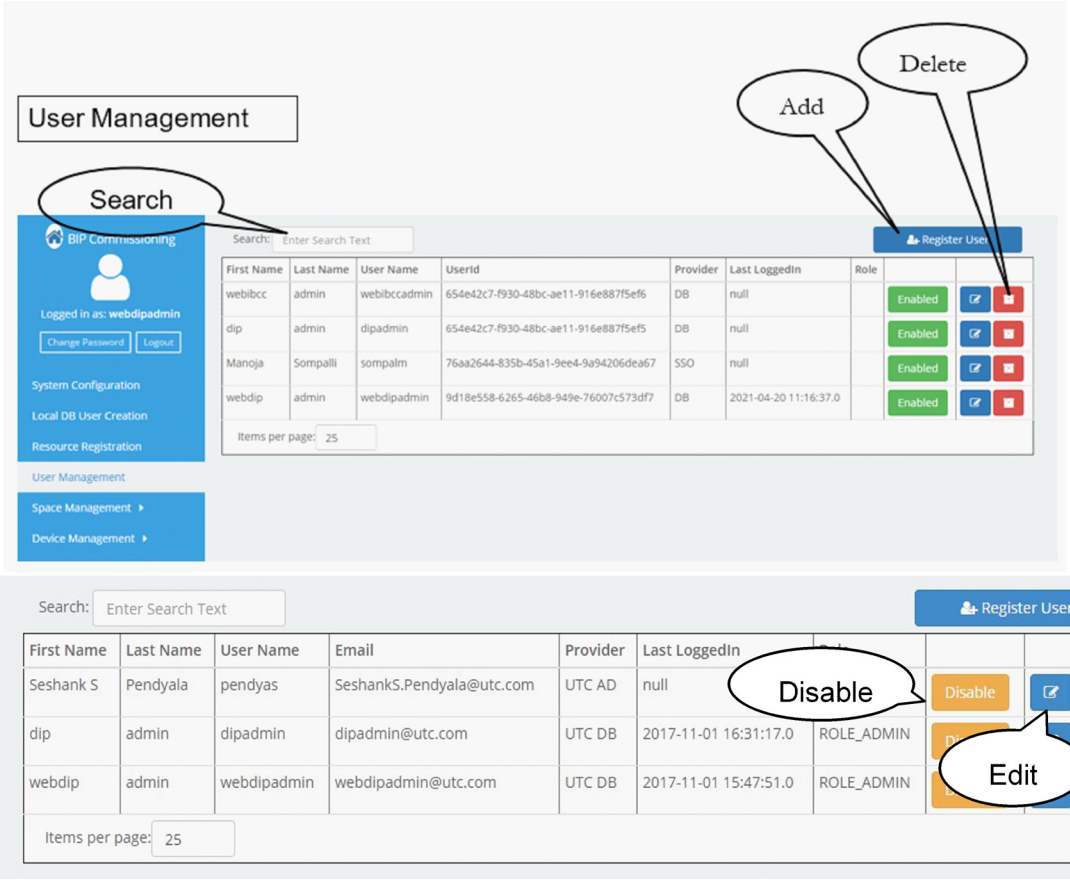
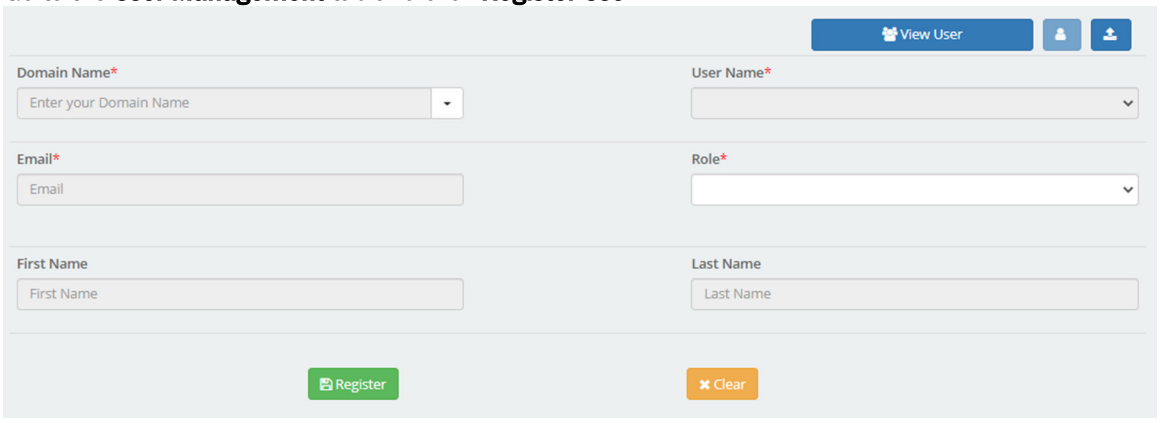
- Local Database (DB)



Register User

Follow the steps below to register a BIP user:

1 Go to the **User Management** tab and click **Register User**.



2 Provide user information.

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- To register an Active Directory user:
  a. In **Domain Name**, select **Active Directory**.
  b. Provide a username or email address, and tab to the next field.
  The remaining information is automatically populated, except for **Role**.
  c. Select the **Role**.

- To register a Single Sign-On user (Screen-2)
  a. In **Domain Name**, select **Single Sign-On**.
  b. Enter the **username**, **email**, **first name**, **last name**, and **password**.
  c. Select the **Role**.

- To register a Local DB User
  a. In **Domain Name,** select **Local MyWay User**.
  b. Select the username from the provided list of local DB users.
  c. User's first name, last name and email will get populated.
  d. Select the **Role**.

3 Click **Register**.

Role Types

Role	Description
User	A user with this role can access only the MyWay App.
Admin	A user with this role can access only the MyWay App. Similar to User, but also has full Community Space access by default.
Demo	A user with this role can access the MyWay App for demonstration purposes only.
Operator	Not applicable
MyWay Admin	A user with this role can access the MyWay App and the Commissioning tools. By default, user has full access to all space types.
Admin with Web Login	A user with this role can access the MyWay App and the Commissioning tools. MyWay access is the same as the Admin role.

NOTE For more information about MyWay App access, see Role Based Access in the *MyWay Commissioning Tool Application* document.

Bulk Upload

Upload UsersActive Directory users can be uploaded in bulk by following the instructions below.

1 On the **User Management** tab, click **Register User** .

2 Click the **Upload** icon .

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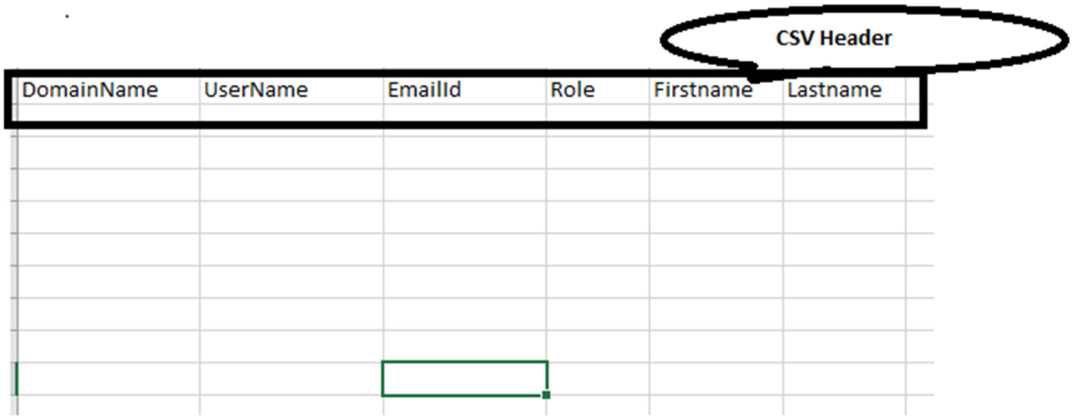
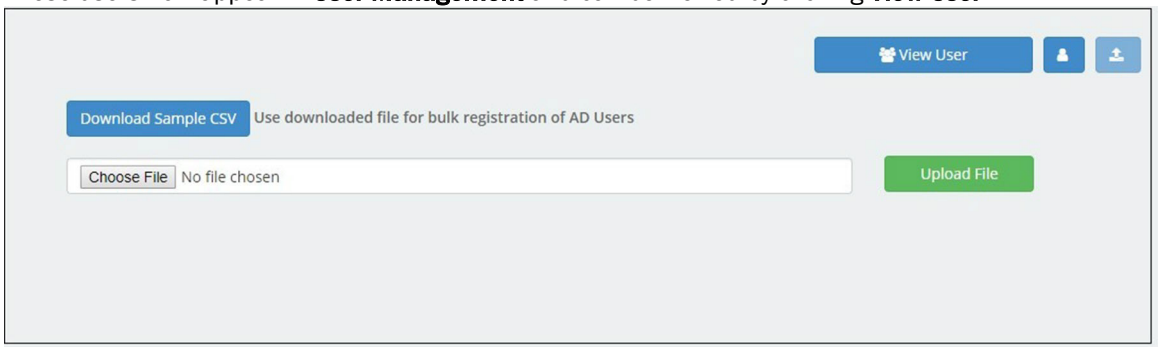
3 Click **Download Sample CSV** and open the sample CSV file.

4 Provide users' information according to the column headers, then click **Upload File**.



5 These users now appear in **User Management** and can be viewed by clicking **View User**.



Space Management

Space Management is used to configure spaces, map spaces to Location Service System spaces, and map Microsoft® Office conference rooms to spaces.

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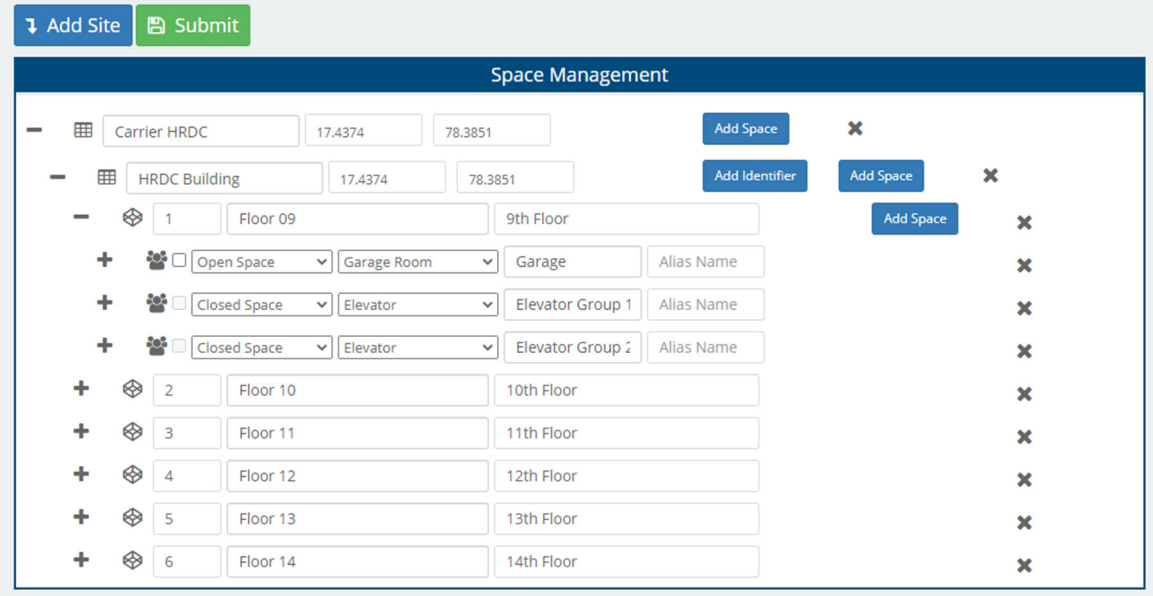
Space Commissioning

This module is used to create spaces for a building.

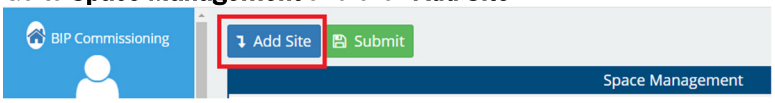
- Spaces are created in a hierarchy, for example, **Site** > **Building** > **Floor** > **Space**.
- Spaces can be of 2 types, **Open** or **Closed**.
- Nested spaces can be created up to 4 levels of nesting, with **Site** as the root.



Add Space

Follow the instructions below to create any type of space.

1 Go to **Space Management** and click **Add Site**.



2 Enter the **Site Name**.

3 Click **+** and then enter the site longitude, latitude.

4 Enter **Floor** name.

5 Click **+**, and then click **Add Space**.

6 Select a **Space Type**, for example, Open Space or Closed Space.

7 Select space tag, for example, Reception, Pantry, or Development Area.

8 Enter the name of the space.

9 After all spaces are created, click **Submit**.

10 At each floor level and space, you can give the space a descriptive alias name to indicate which floor is mapped to which space. For example, in the case of a manager cabin space, the alias name could be "BIP manager".

NOTES

- Space names must be the same as a space available in the building.
- By default, you can add no more than 10 spaces.

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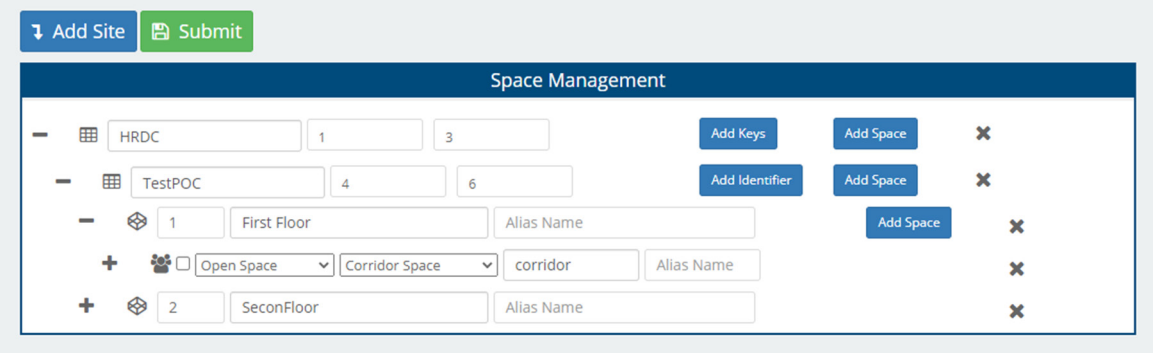
Delete Space

Follow the steps below to delete any space.

1 Click **X** for the space you want to delete.

2 Click **Confirm**.

NOTE If parent space is deleted, then nested child spaces are also deleted.

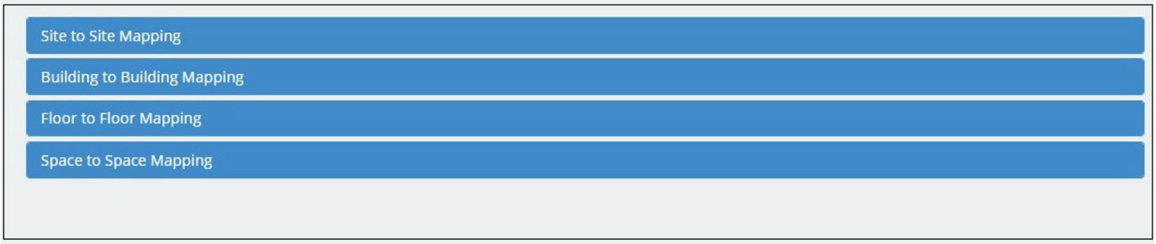


Other Actions

- Update the name of a space:
  a) Click the space name text.
  b) Enter the desired name.
  c) Click **Submit**.
- Update and delete latitude and longitude fields at the building level.

Space Mapping

Space Mapping allows you to map building spaces with Location Service System spaces. Location Service System spaces come from Location System API's (Phunware/Purple). Before mapping at the Spaces level, its corresponding parent must be mapped.



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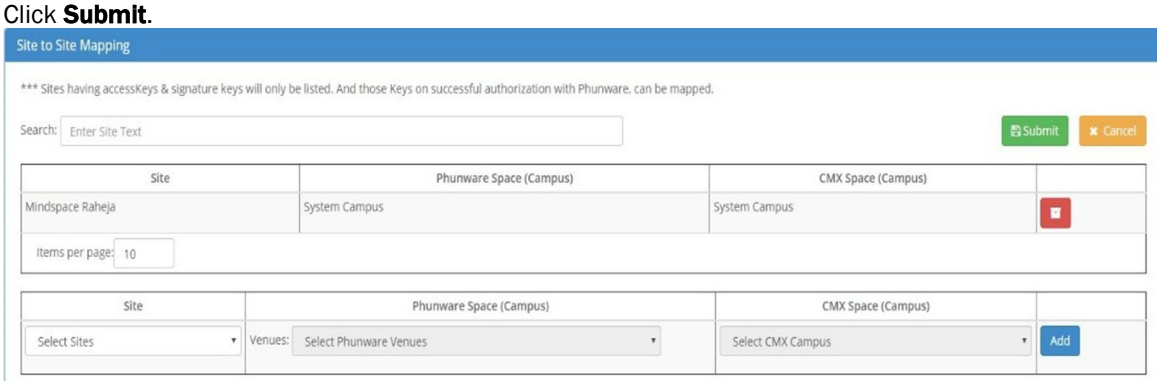
Add Site to Site Mapping

Site to Site Mapping based on Configured Location Service System:

Follow the steps below to map a site with Location Service system campus

1. Click **Site to Site Mapping**, then select the site and corresponding Location Service System campus.
2. Click **Add**.
3. Click **Submit**.

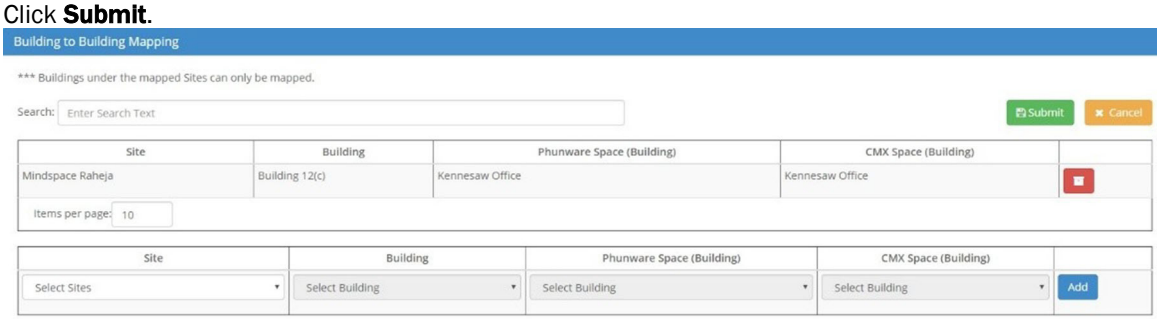


Add Building to Building Mapping

Building to Building Mapping based on Configured Location Service System

Follow the steps below to do building to building:

1. Click **Building to Building mapping**.
2. Select **Site** > **Building** > **Location Service System Building**
3. Click **Add**.
4. Click **Submit**.



Add Floor to Floor Mapping

Floor to Floor Mapping based on Configured Location Service System:

Follow the steps below for floor-to-floor mapping.

1. Click **Floor to Floor**.
2. Select **Site** > **Building** > **Floor** > **Location Service System Floor**.
3. Click **Add**.
4. Click **Submit**.

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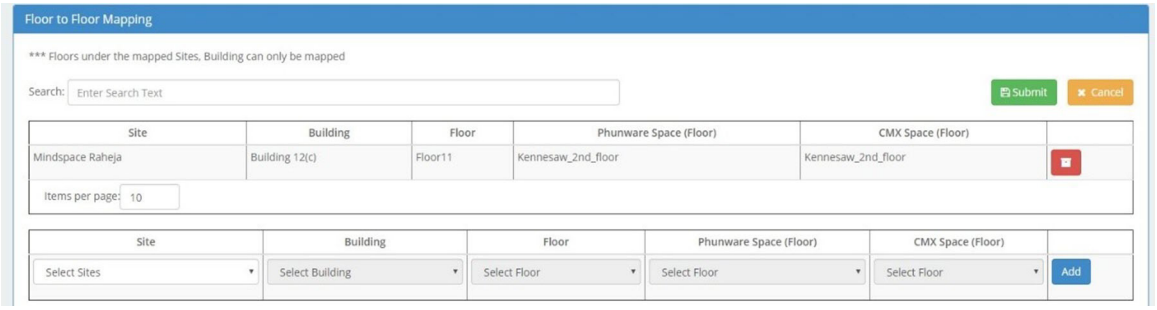
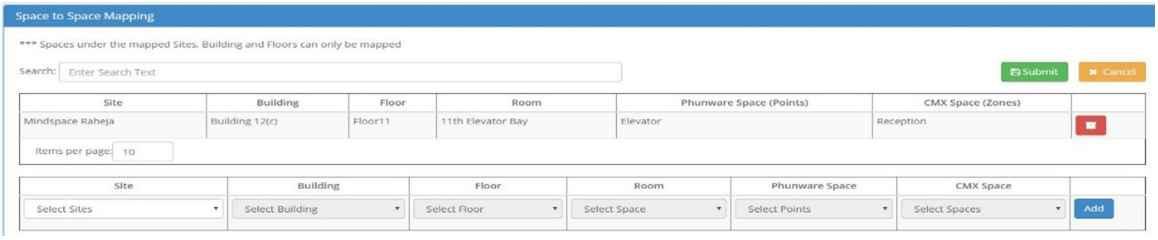


Add Space to Space Mapping

Space to Space Mapping based on Configured Location Service System

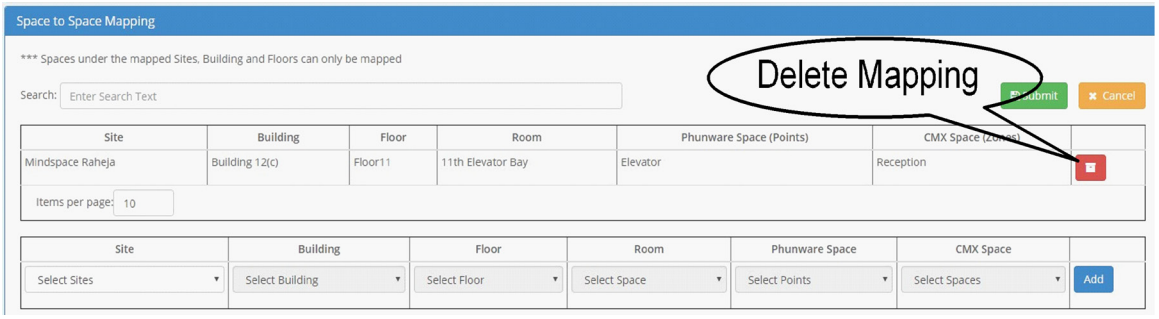
Follow the steps below for space to space mapping:

1. Click **Space to Space**.
2. Select **Site** > **Building** > **Floor** > **Space** > **Location Service System Space**.
3. Click **Add**.
4. Click **Submit**.



Delete Mapping

You can delete the mapping at site level, building level, floor level, and space level. Click **Delete** next to the mapping you want to delete.



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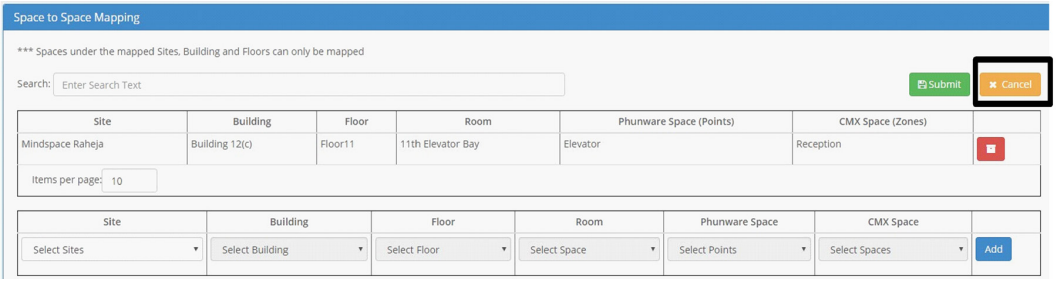
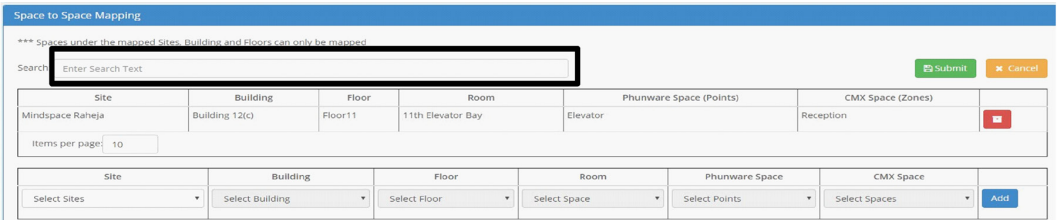
Cancel Mapping

Any mapping which has not been submitted can be canceled by clicking **Cancel**.



Search Mapping

Mapping can be searched in any section with the **Search** box.

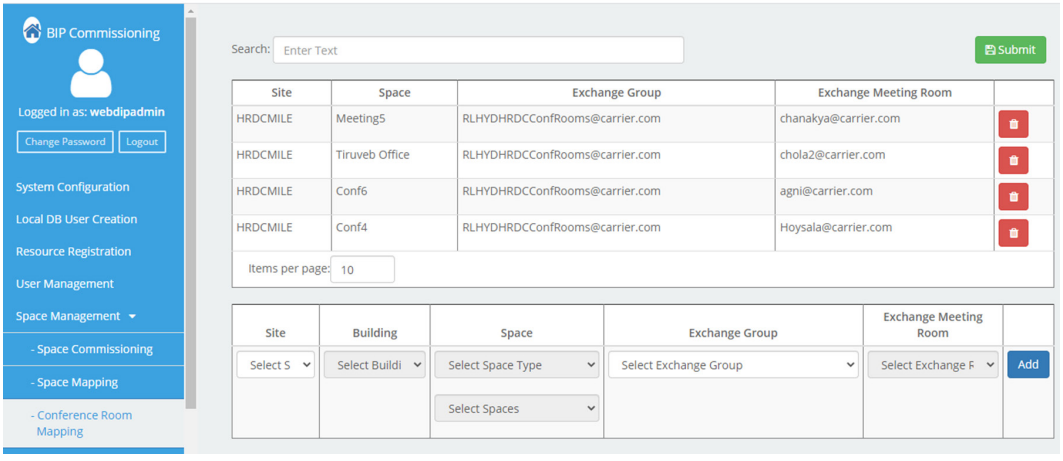


Conference Room Mapping

This module maps Meeting Room and Conference Room spaces so MyWay users can reserve a room.

Add Conference Mapping

1. Click **Conference Room Mapping**.
2. Enter your password in case of EWS, or email address and password if you are using Office 365.
   NOTE Office 365 Graph configuration does not require any input to load the Exchange Group and available rooms.
3. Select **Site** > **Building** > **Space** (select space type and space) > **Exchange Group** > **Exchange Meeting Room**.
4. Click **Add**.
5. Click **Submit**.



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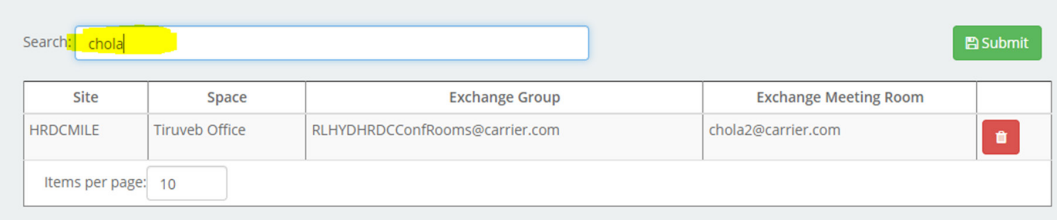
Delete Conference Space Mapping

Delete a conference space mapping by clicking the red **Delete** icon.

Search Conference Space Mapping

To search for a conference space, begin typing in the **Search** box.



Device Management

To map end system devices to spaces, you must use Device Management to map Access Control, HVAC, Lighting, Elevator, and iBeacon devices. You can control temperature, light, reader access, and elevator functionalities.

Access Control

Access Control allows you to associate devices with spaces. For example, Open Spaces can be associated with Readers (categorized as IN and Other). Closed Spaces can be associated with Readers (categorized as IN and Other) and Light Scenes. Easily manage your access control options with the space tree-structure.

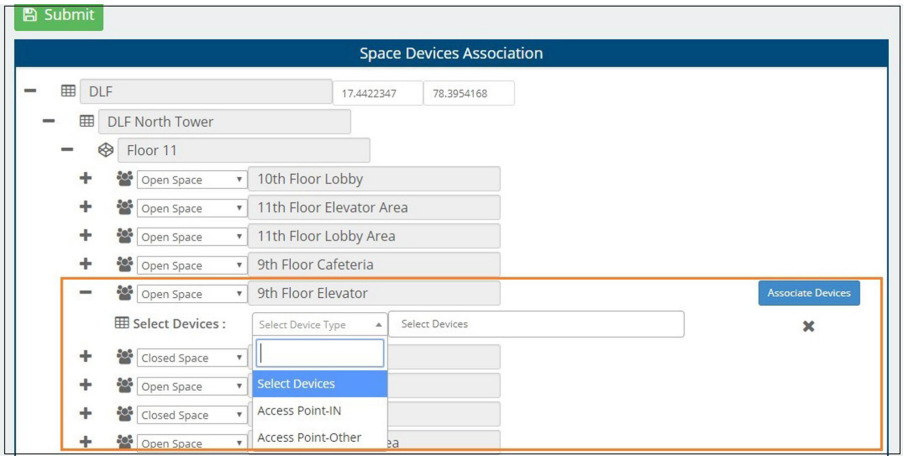
Associate devices with Space

You can associate access readers with spaces with two categories, “Access Point-In” and “Access Point -Other”.

1 Click **Associate Devices** next to a space.

2 Select the type (**Access Point -In** or **Access Point -Other**) and select readers.

3 Click **Submit**.



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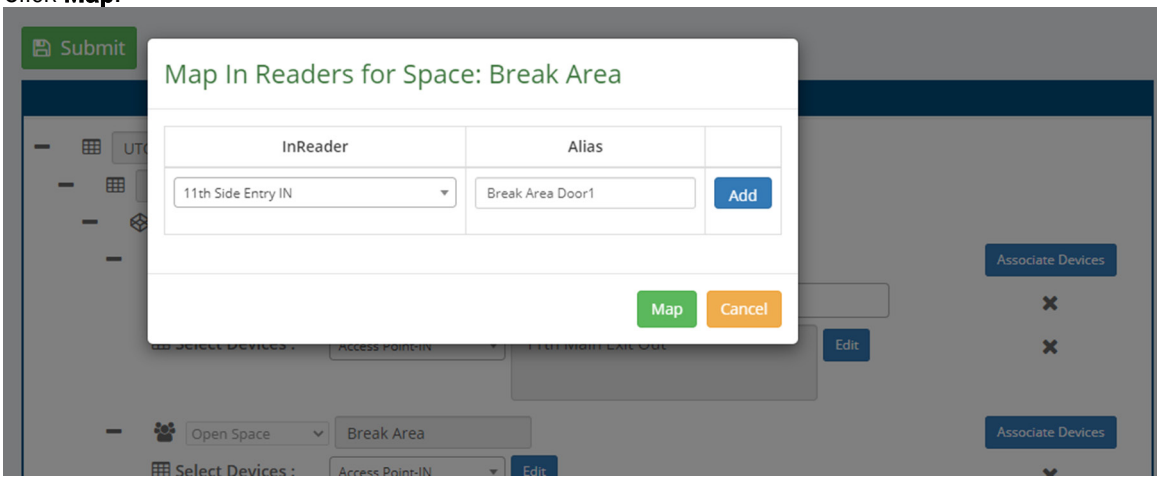
To associate "IN Readers":

1 Click A**ssociate Devices**, and then select **Access Point-In Readers**.

2 Select a reader and then click **Add**.

3 Click **Map**.

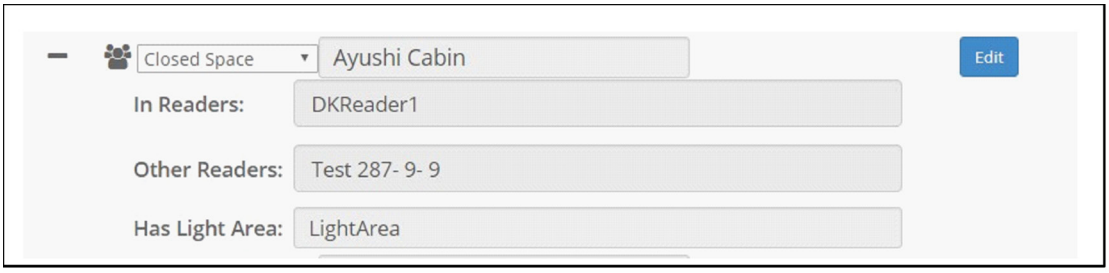


4 Click **Submit**.

NOTE Admins can change the default alias name of a reader. This is the name that appears in **Doors** on the mobile app.

Edit Space-Device Mapping

Edit space device mapping with **Edit**.



To edit a device

1 In a space, click **+** to expand the space detail.

2 Click **Edit** and select a device

3 Click **Submit**.

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To edit an access point reader

1 Click **Edit**, and then select a reader.

2 Click **Add**, and then click **Map**.

3 Click **Submit**.

Delete Space-Device Mapping

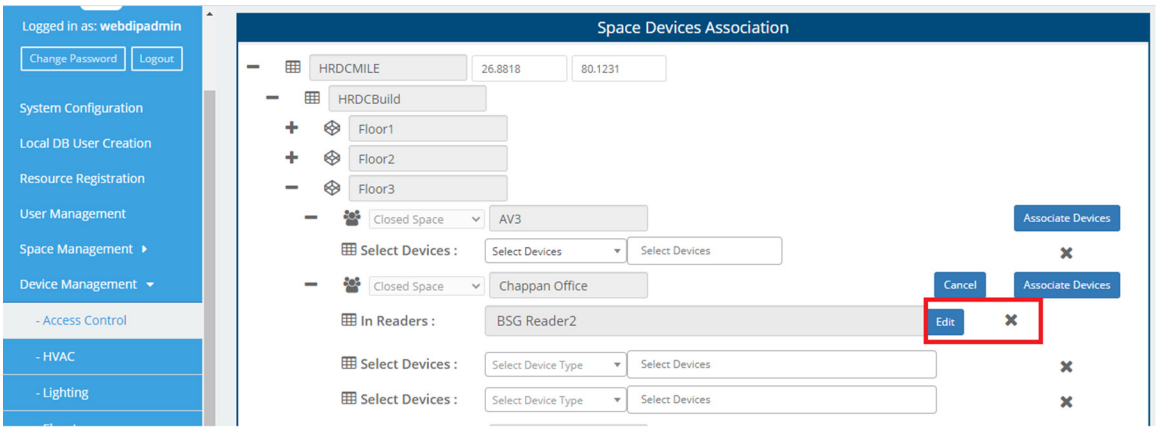
Follow the steps below to delete a space device mapping.

1 Click **Edit** next to the space with the mapping you want to delete.

2 Click the **Delete** icon **X.**

3 Confirm the deletion.

NOTE Deleting the space-device mapping deletes only mapping, and not the space.



HVAC

This module is used to associate temperature data points with spaces.

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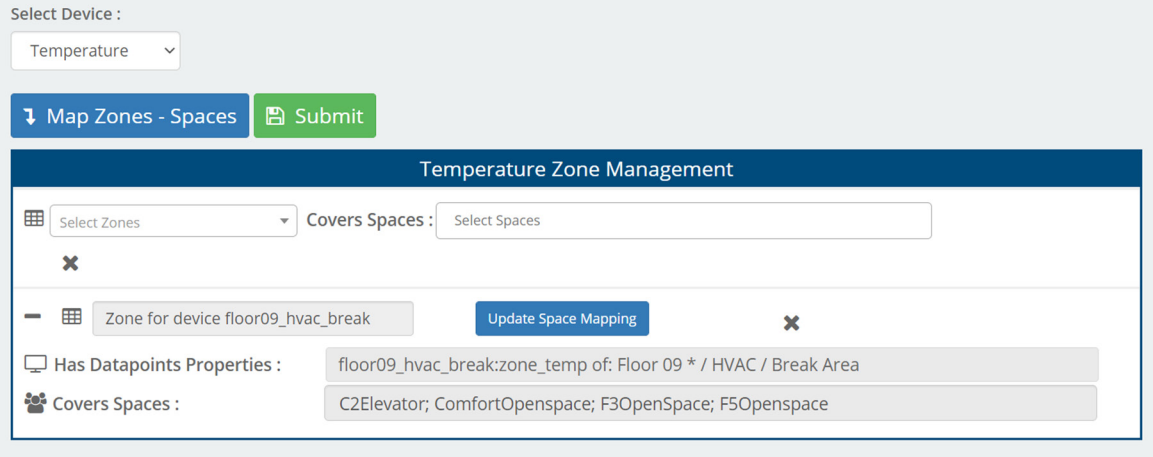
Mapping Temperature Zone



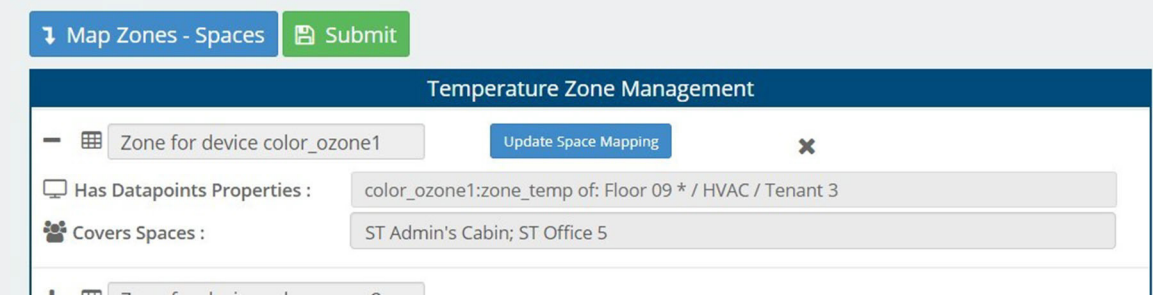
Associate Temperature Zone with Spaces.

1 Click **Map Zones – Spaces**.
2 Select **Temperature Zone** and then select spaces.
3 Click **Submit**.

Update Spaces

Follow the steps below to update any space against a temperature zone.

1 Click **+** to expand the temperature zone.
2 Click **Update Space Mapping**.
3 **Delete** or **Add** spaces as required.
4 Click **Submit**.



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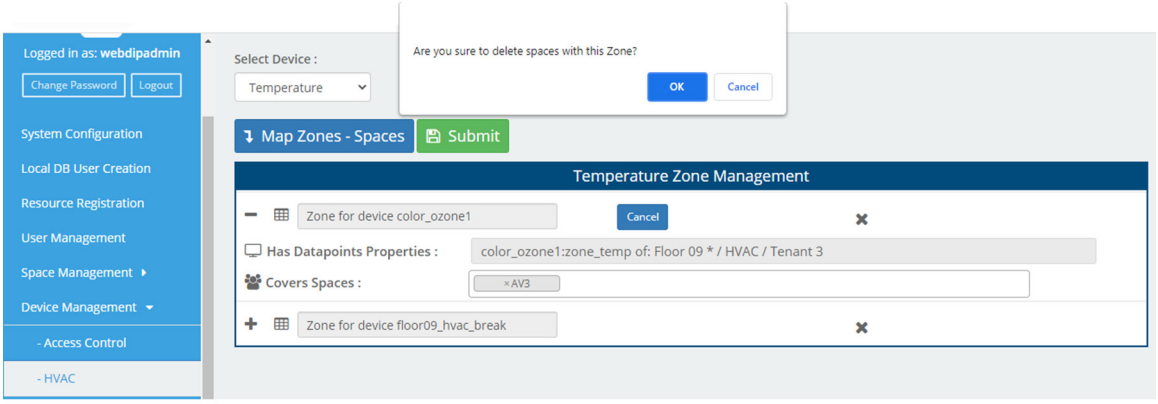
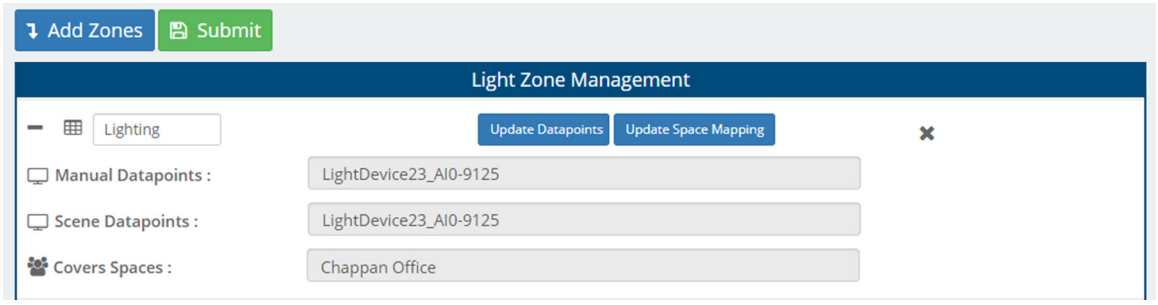
Delete Temperature Zone Mapping

1. Click the **Delete** icon **X**.
2. Confirm the deletion.



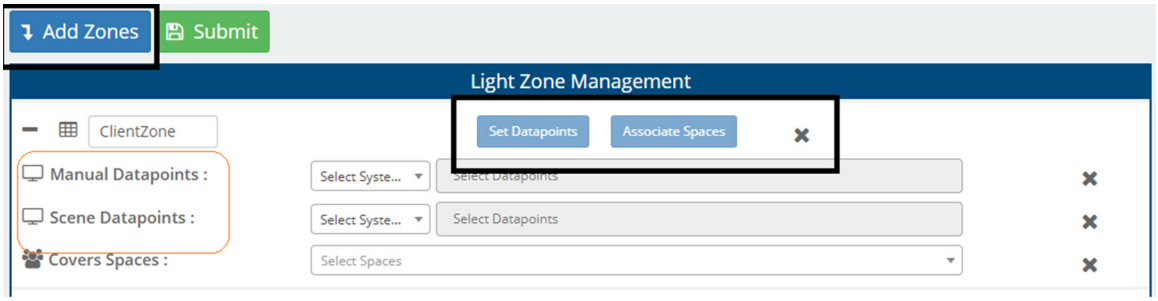
Lighting

This module is used to associate lighting devices with spaces.



Associate Light Zone with Space

1. Click **Add Zones**.
2. Enter a name for the zone.
3. Click the **Expand** icon **+**.
4. Click **Set Datapoint** and select a light system from the drop-down box.
5. Select a light device for **Manual Datapoints** or **Scenes Datapoints** configuration.
6. To associate space with this zone, click **Associate Space**, and then select the desired space
7. Click **Submit**.



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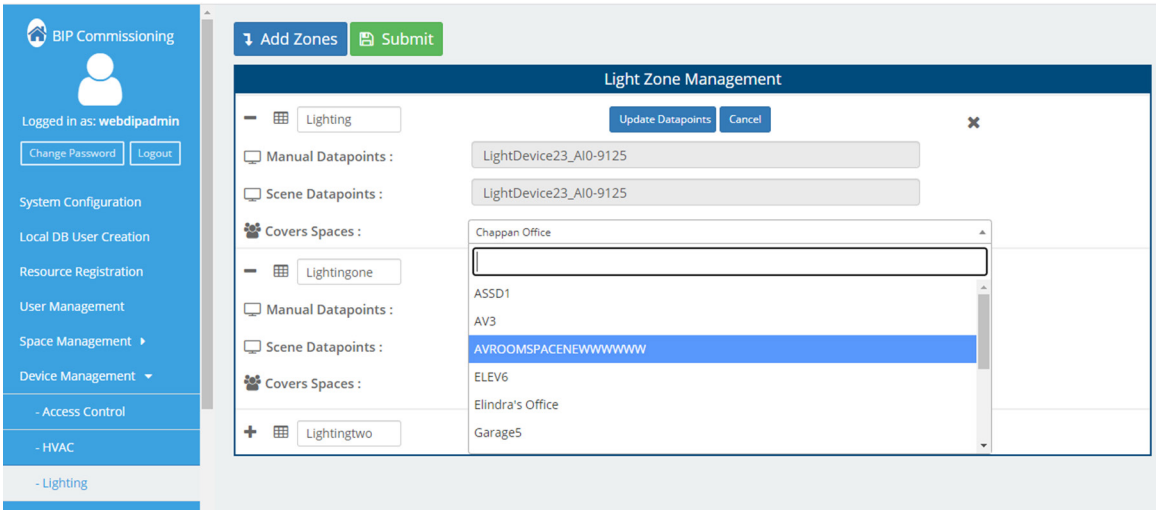
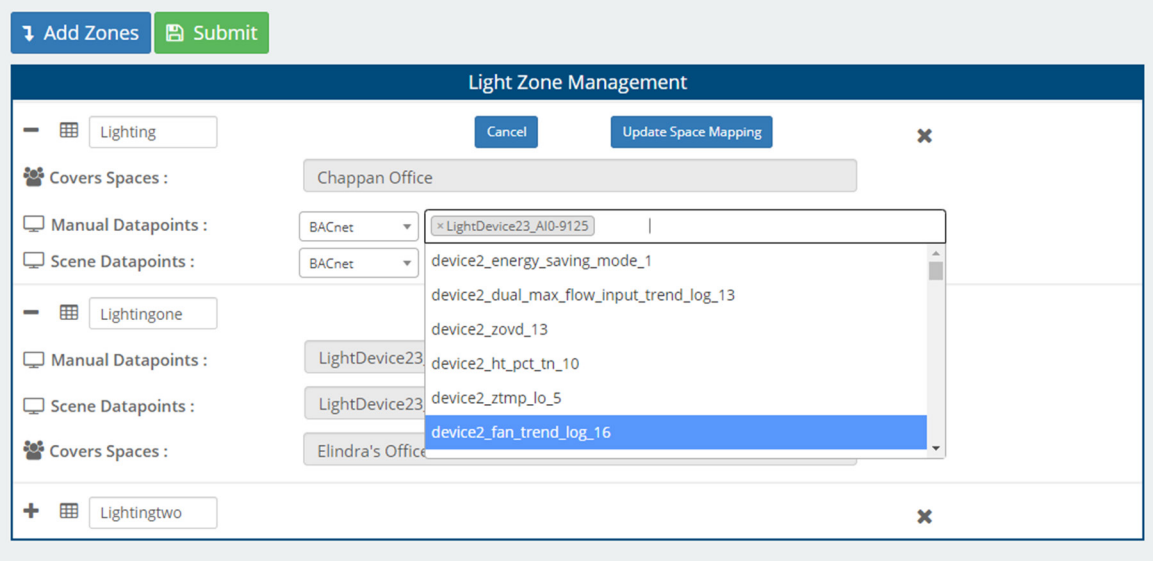
Update Light Zone

In this module you can Update Zone names, Update Light Datapoint, and Update Space Mapping.





To update a space against a light zone,

1. Click **+** to expand that light zone.
2. Click **Update Space Mapping**.
3. Delete spaces or add new spaces as required.
4. Click **Submit**.

To update Light Datapoint Mapping

1. Click **+** to expand the light zone.
2. Click **Update Datapoint**.
3. Select the required light datapoints.
4. Click **Submit**.

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To update zone name

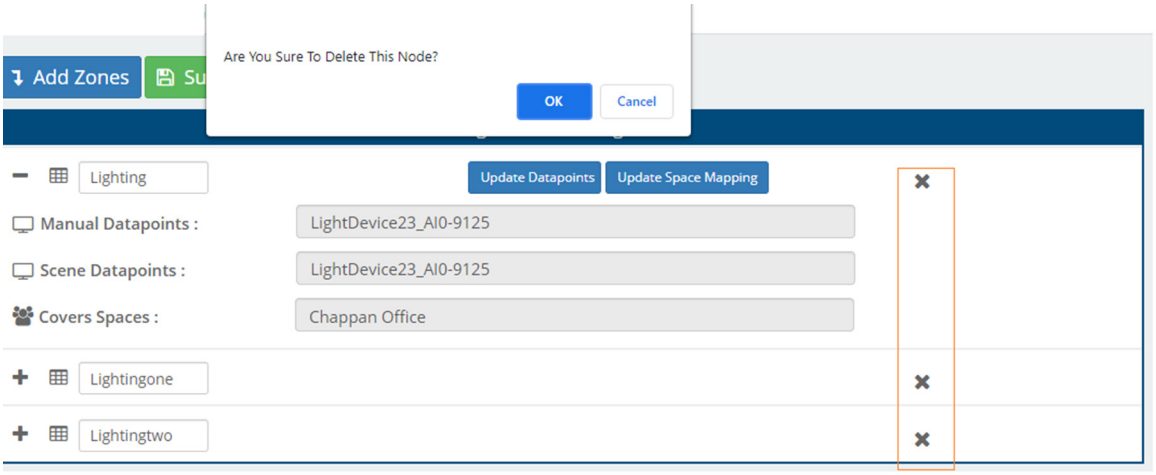
1 Click on **Zone Name**, and enter the new name.

2 Click **Submit**.

Delete Light Zone Mapping

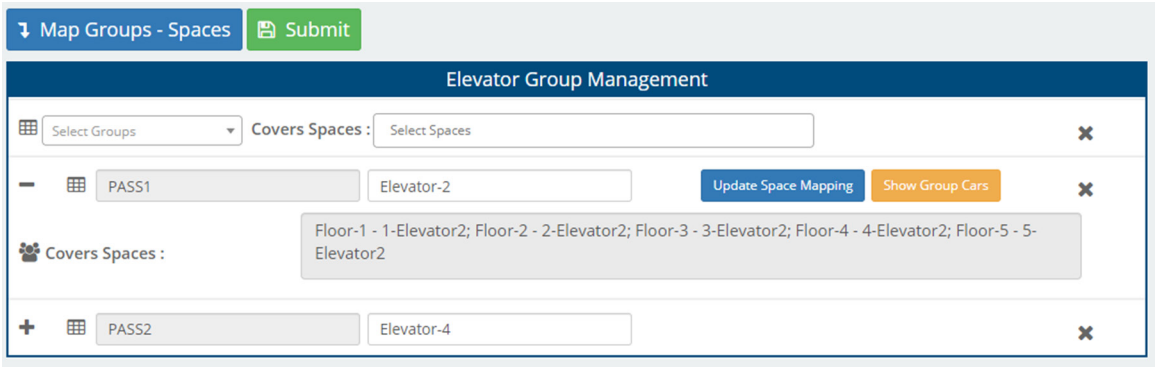
1 Click the **Delete** icon **X**.

2 Confirm the deletion.



Elevator

This module is used to associate elevator groups with floors.



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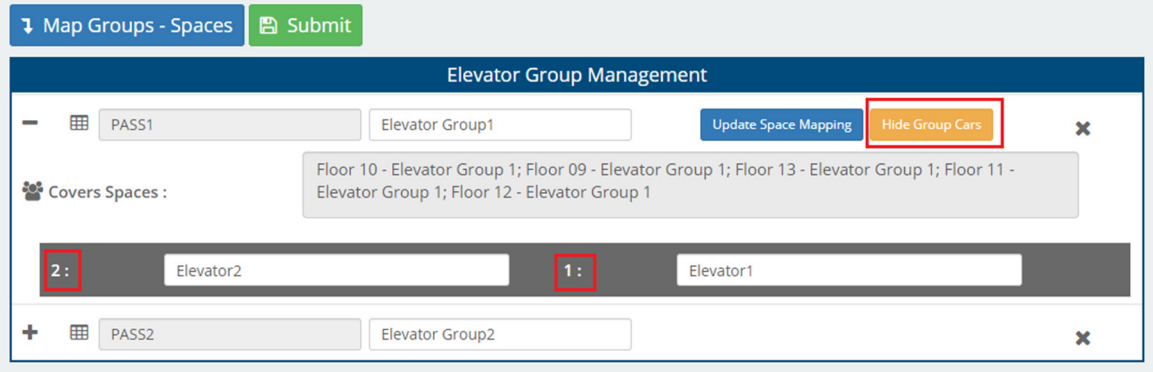
Add Elevator Mapping

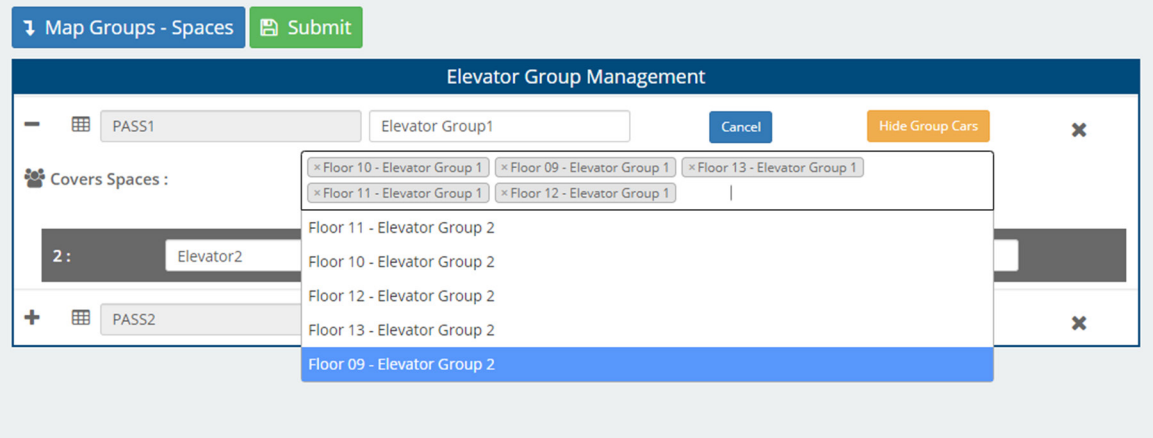
1. Click **Map Group-Spaces**.
2. Select a **Group**, and then select a space from **Cover**.
3. Click **Update Space Mapping**.
4. Click **Submit**.

NOTE Use **Show Group Cars** and **Hide Group Cars** to view or hide group cars.



Update Space Mapping

Click **Update Space Mapping**, and then select a space.



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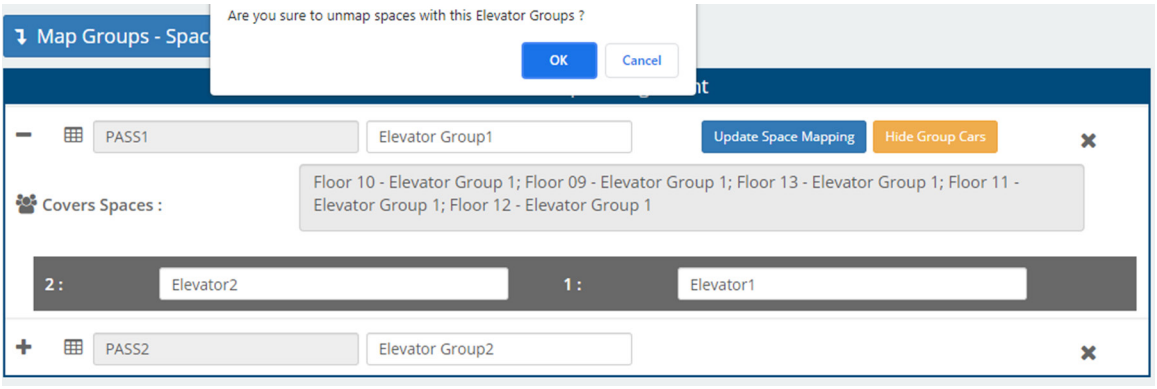
Delete Spaces Mapped with Elevator group

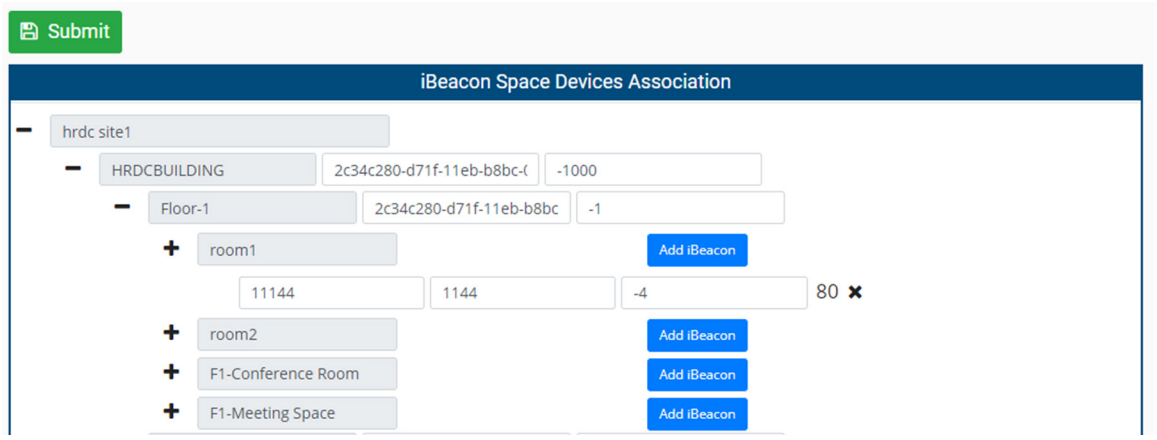
1 Click the **Delete** icon **X**.

2 Confirm the deletion.



iBeacon Device Management

This module allows mapping iBeacon devices to spaces. You can map iBeacon to spaces using UUID, RSSI, Major, and Minor values.



Field	Description
Building	Admin has configured UUID and RSSI values in building level.
Floor	Admin has configured UUID and RSSI values in floor level.
Room	Admin has configured Minor, Major, RSSI and Batter level (read only) values in room space level.

NOTE iBeacon configuration is performed in the MyWay App, by a MyWay Admin. A list of all configured iBeacon devices is visible on this page.

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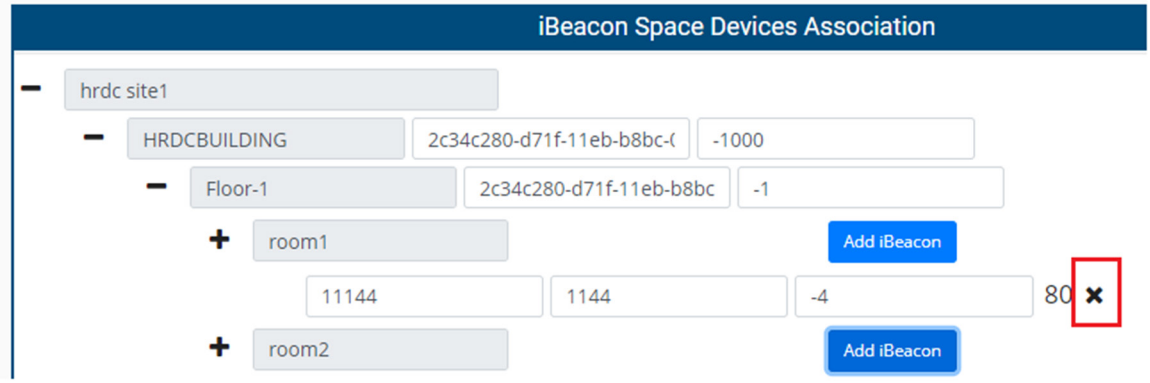
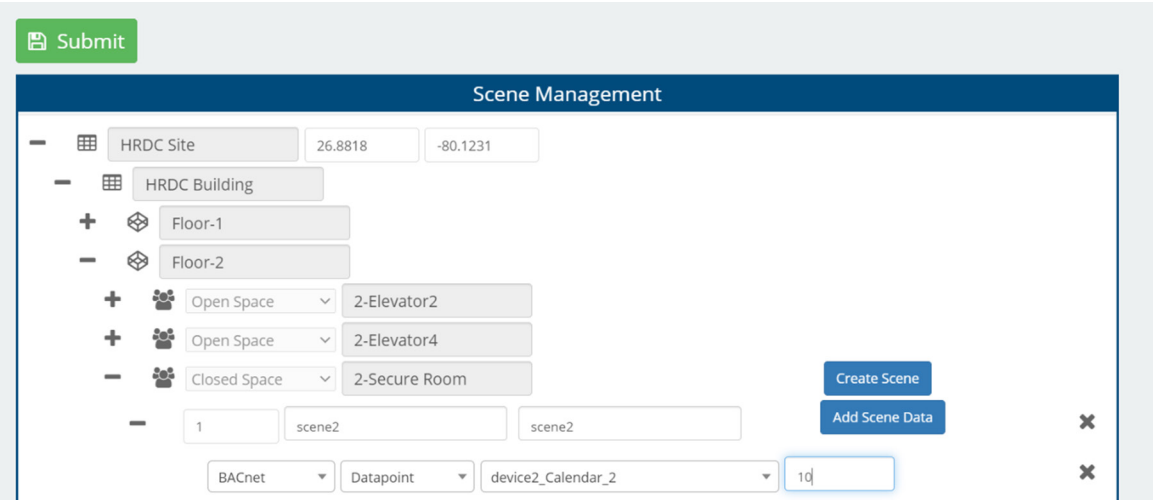
Delete iBeacon device

1 Click the **Delete** icon **X**.
2 Confirm the deletion.



Scene Commissioning

This module creates or updates Scenes for temperature or lighting points for a selected space. There are two modes for a Scene, OFF and ON.



Create Scenes

1 Click **Create Scene**, and then enter the **Index**, **Scene Label**, and **Scene Alias** details.
2 Add **Scene Data**, select the system type from the available list.
3 Chose **Zone/Datapoint** from the list.
4 Choose the datapoint ID or zone ID from the list, and enter the set value for scene management.
5 Enter the **Enter** set value.
6 Click **Submit**.

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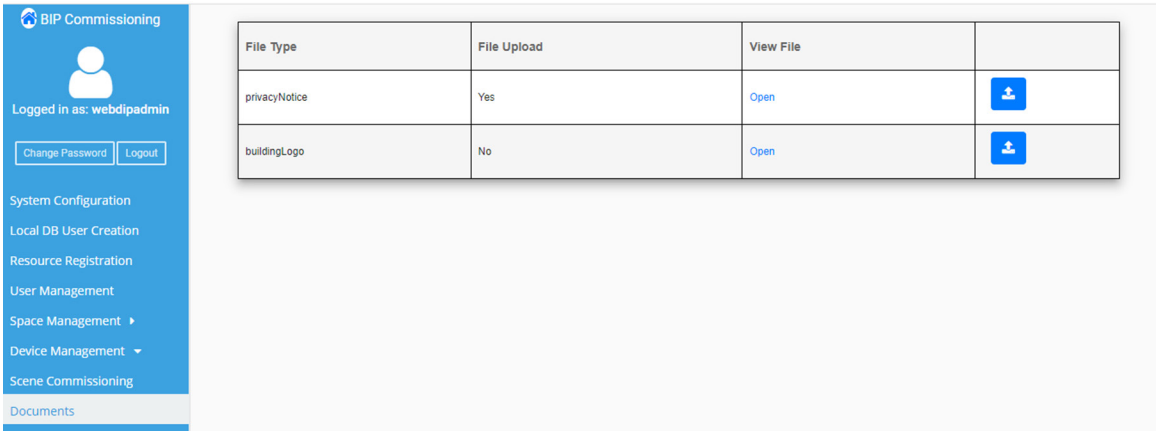
Delete Scenes

1 Click the **Delete** icon **X**.

2 Confirm the deletion.

Documents

This module allows the administrator to upload privacy notice documents and the customer's building image to display on the MyWay App.



NOTE To upload building image the following are restrictions;

- Building image should be a 1242x900 .png file.
- File size should be maximum up to 2 MB.
- Building image background should not be transparent.

About

This module displays an option to view and download documents like the EULA, Privacy Notice and 3rd Party Library License Information.

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Document revision history

Important changes to this document are listed below. Minor changes such as typographical or formatting errors are not listed.

Date	Topic	Change description	Code*
		No updates yet	

* For internal use only

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