COSMICNODE

INFINITY PLATFORM
USER MANUAL

https://www.cosmicnode.com

Contents

Overview

This manual provides a concise and practical guide for the correct use of Cosmic-node's *Infinity Platform*. It allows commissioning agents and facility managers to control and manage commercial and industrial lighting infrastructures while offering remote-control functionality through the web.
Infinity LMS Platform is an enterprise-level application for multi-tenant and multi-site lighting management. It is a cloud-based platform that provides a centralized way to manage and monitor lighting systems across multiple locations.

Infinity IoT Platform offers a variety of features, including:
- **Advanced lighting control:** Infinity offers a wide range of lighting control features, including occupancy-based control, daylight harvesting & scene control
- **Calendar & Schedules:** Can create scheduled events based on absolute time or astronomical clock to control the lights
- **Energy monitoring:** The platform can be used to monitor energy consumption and identify areas where energy savings can be made
- **Reporting:** The platform provides a variety of reports that can be used to track the performance of lighting systems and identify areas for improvement
- **Multi-Tenant and Site Management:** Platform allows to manage multiple customers and multiple sites under a Tenant account

Currently, Infinity supports different main access levels: **tenant admin, business owner, site planner, site engineer** and **facility manager.**

Using a Tenant admin account, you can:
- View and manage customers and other assets and resources
- Create customers and invite users under each customer
- Create and control building, site, zone and floors

Using a Business owner account, you can:
- View and manage Sites and other resources
- Access multiple customers/businesses owned or assigned to them by the Tenant admin

Based on the type of collaborator account selected, there are different accessibility rights. To know more, please look at the 'Roles Permission' document.

Introduction

The Infinity IoT Platform is a dedicated cloud application which helps to connect, control and manage Cosmicnode powered lights and other IoT devices. Facilitating maximum energy and cost savings.

Infinity proposes a solution which is:

- **User-friendly:** Simple and easy to use lighting and asset management platform;
- **Scalable:** The database and its possibilities are ready to grow along with your business;
- **Fast:** Data visualization and remote device control in real-time;
- **Secure:** All the data is encrypted, and the user access management is customizable;
- **Solution templates for multiple industries:** Templates are already available on the platform for you to use.

It consists of two elements; a web app and iPad app. Both making the commissioning process faster and easy for tenants, business owners and collaborators.

- **Web-app (Infinity platform):** It can be used to manage lighting installation projects, plan commissioning off-site and control the lights.
- **iPad app:** It can be used on-site to commission the devices using a Bluetooth connection between the app and wireless devices such as lights, sensors and switches. With the iPad app you can also control the lights. User can provision and remove devices only from the Infinity Controls App.

You will get a demo or training before the account is created so you can get familiar with the platform.

Please note: *At the moment, both applications are only available in English.*

App installation

Infinity is a web based app and it has Infinity Controls iPad App for floor plan based commissioning

User management

Account creation

An individual account will be created by Cosmicnode platform owner for the tenant admin.

Tenant admin invitation

An invitation email to log in the Infinity app will be sent to the admin, so that the account can be managed.

Log in

After receiving the activation email, enter your email and password (case-sensitive) on the log in screen and click 'Log in'.
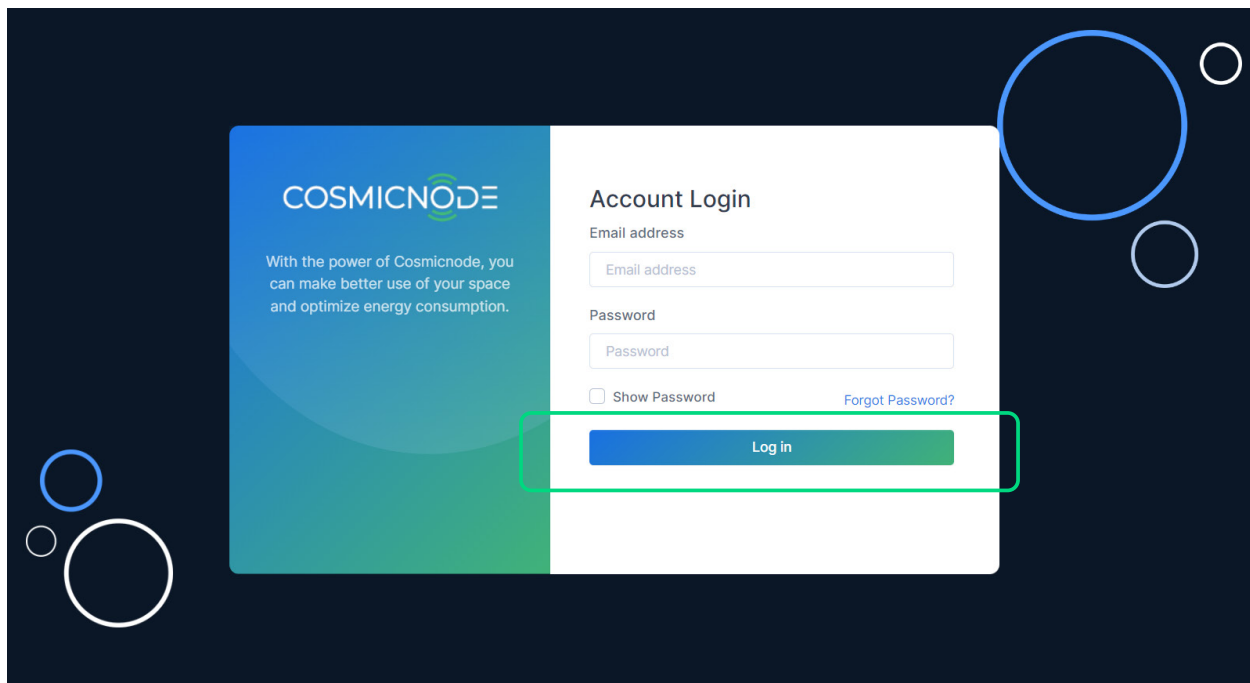

Fig. 1.1 *Fill in your personal info and click "Log in"*

Reset password

You can reset your password directly from the website.

1. Click the 'Forgot Password?' button and you will be redirected to another page
2. Insert your email and click 'Send reset link'
3. A link to reset and create a new password will be sent to the email address.
4. Once you choose the new password, you will need to log in again.
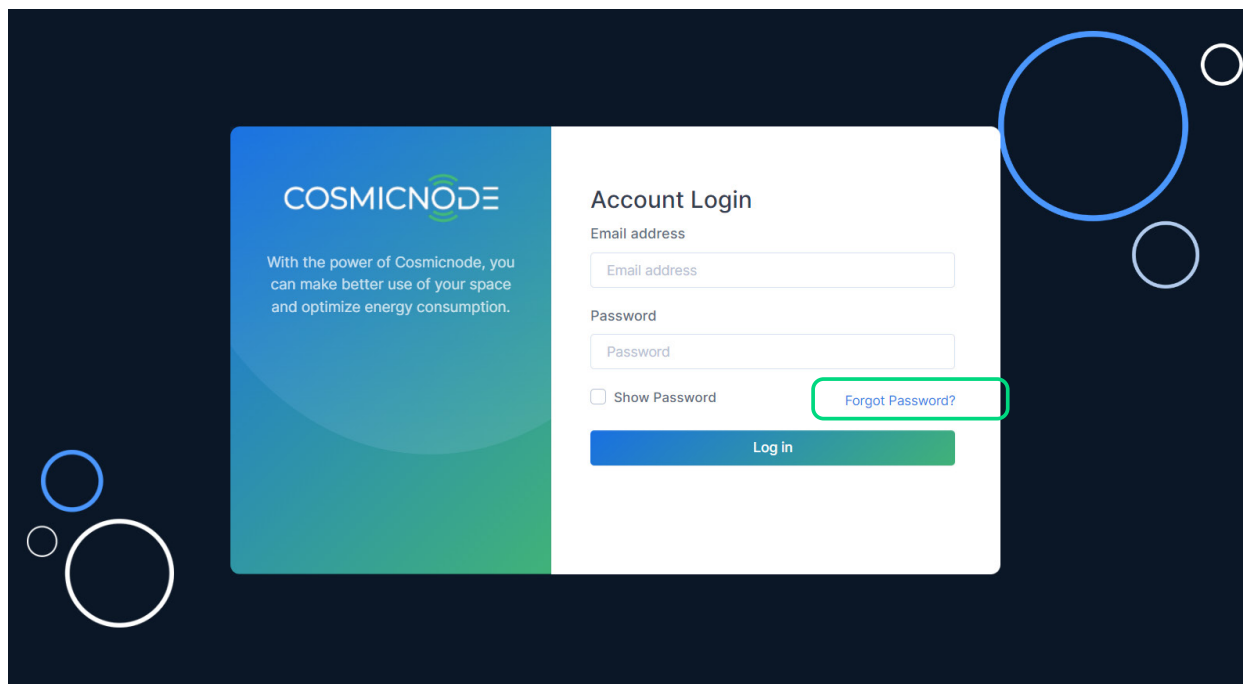
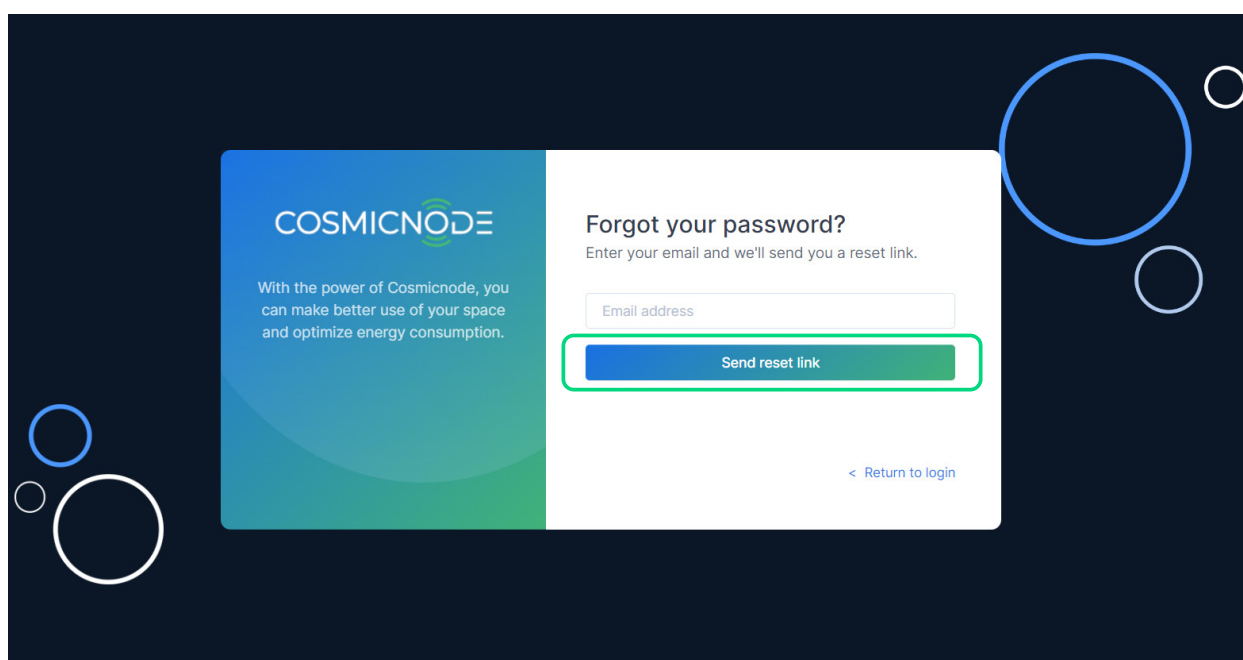
Fig. 1.2 *Click 'Forgot Password?'*

Fig. 1.3 *Fill in your email address and click 'Send reset link'*

Customer management

Customer creation

1. At the Home page, click on '+' next to 'Customers' to add a new customer
2. Fill in the Customer information and press 'Next'
3. Fill in the Business information & upload all needed images, and press 'Next'
4. Select the desired Solution Templates (Parking, Residential, and/or Offices)
5. Select the Location information
6. Upload the required images (*the image and logo size should be 260px X 160px)
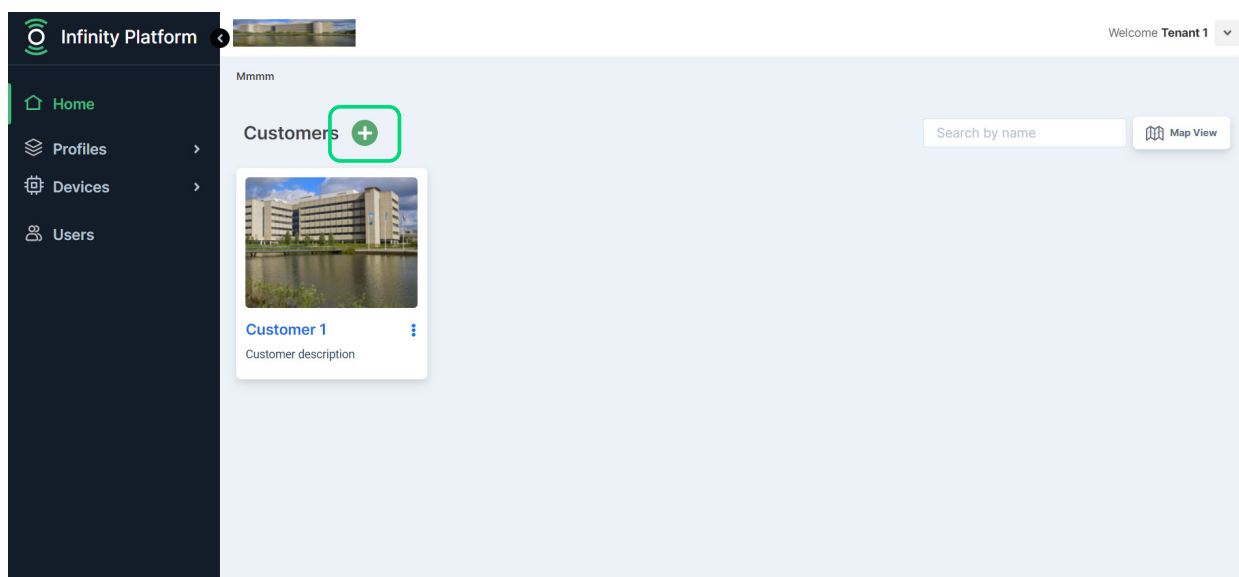7. Click 'Add'

*Only Tenant Admin can add a customer

Fig. 2.1 Click on '+' to add a new customer
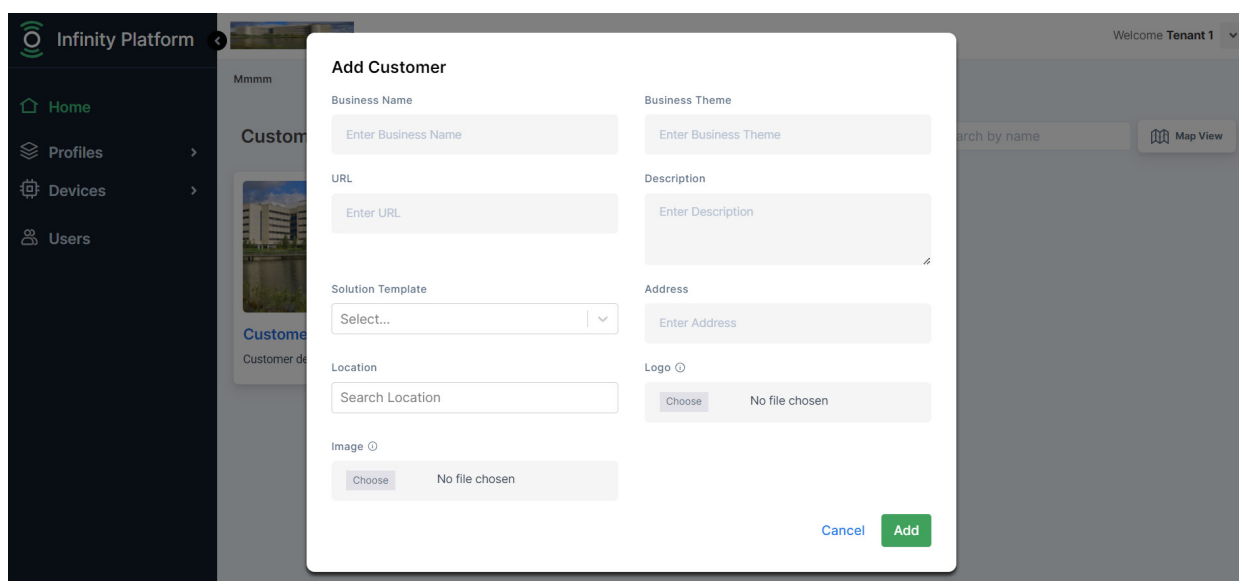
Fig. 2.2 Fill in all the required Business information
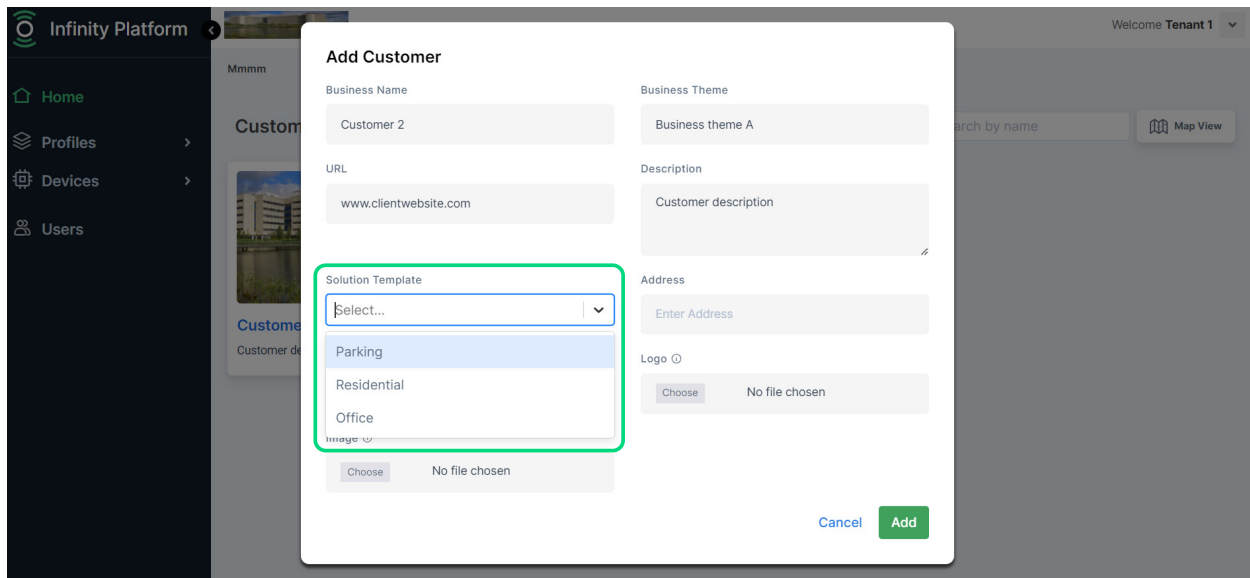
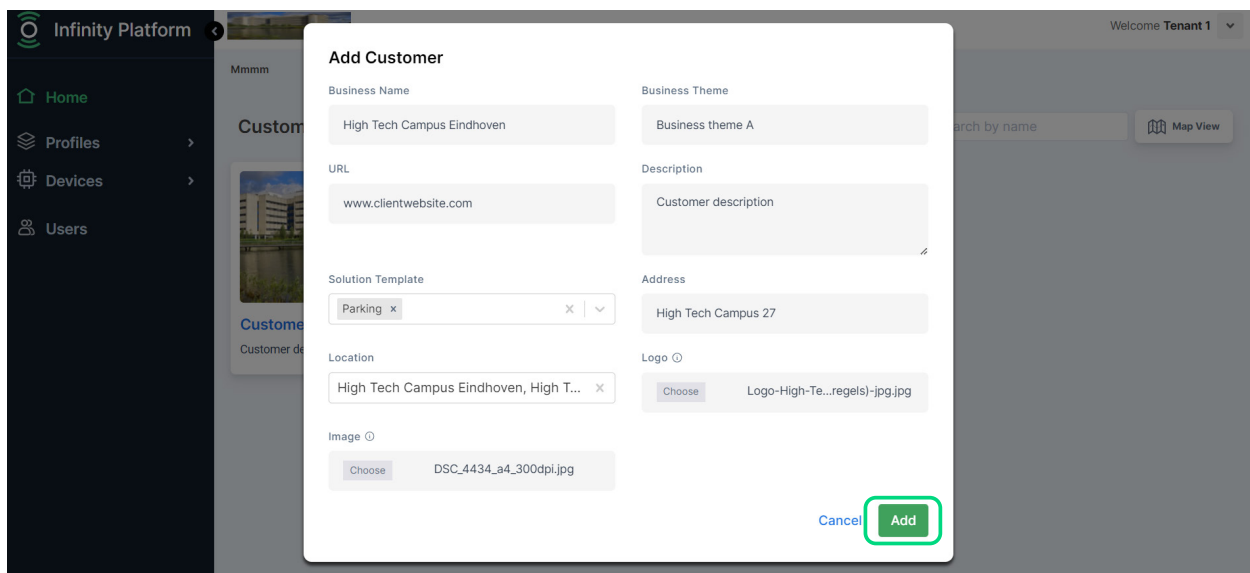**Fig. 2.3** *Select Solution Templates (you can select more than one)*

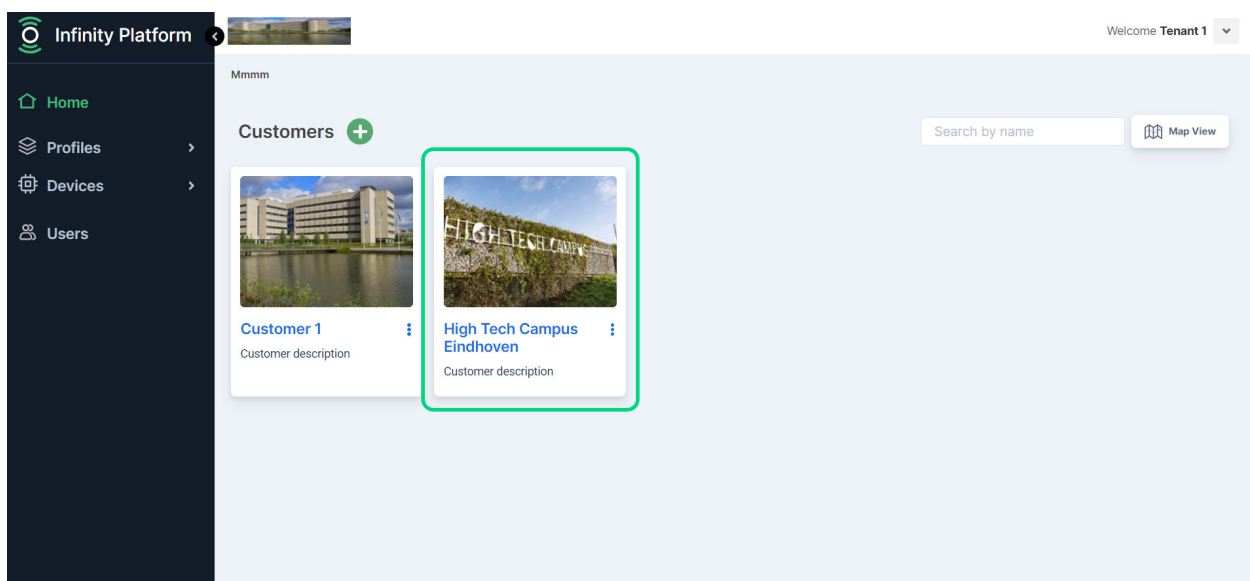**Fig. 2.4** *Fill in/select/upload the remaining infromation and click 'Add'*

Fig. 2.5 *The new Customer Profile is created and appears on the Home page*

Customer invitation

To complete the addition of a new customer, you have to invite them. To do that:

1. Go to 'Users' page
2. Click on 'Add business owner'
3. Fill in the Name & the Email address of the customer
4. Select the customer from the dropdown menu (sourced from your previous Customer creation)
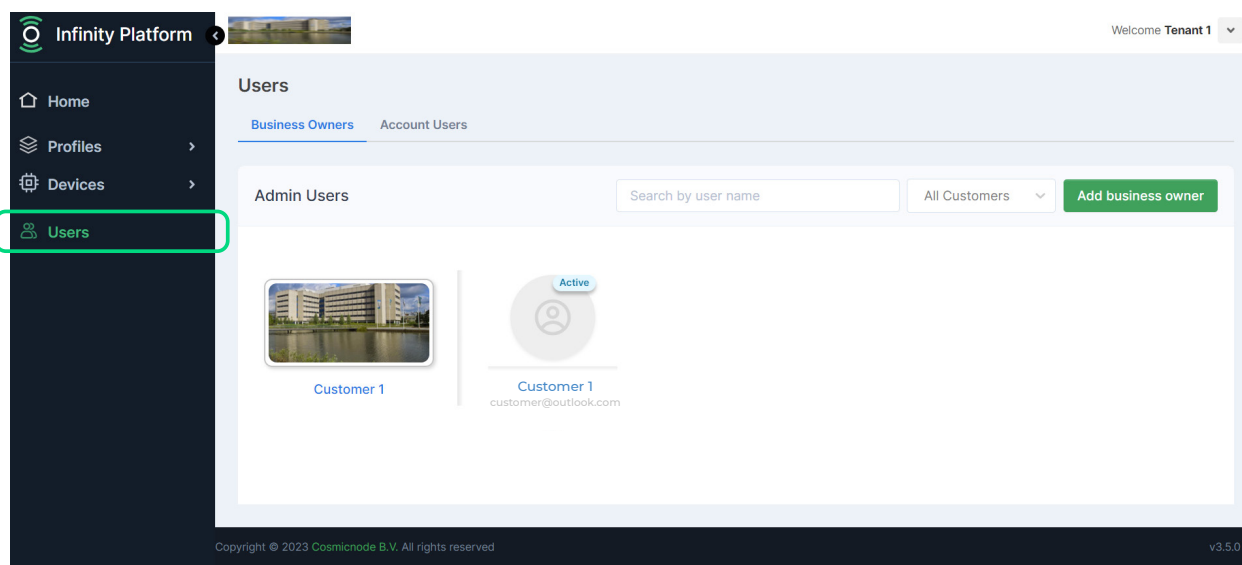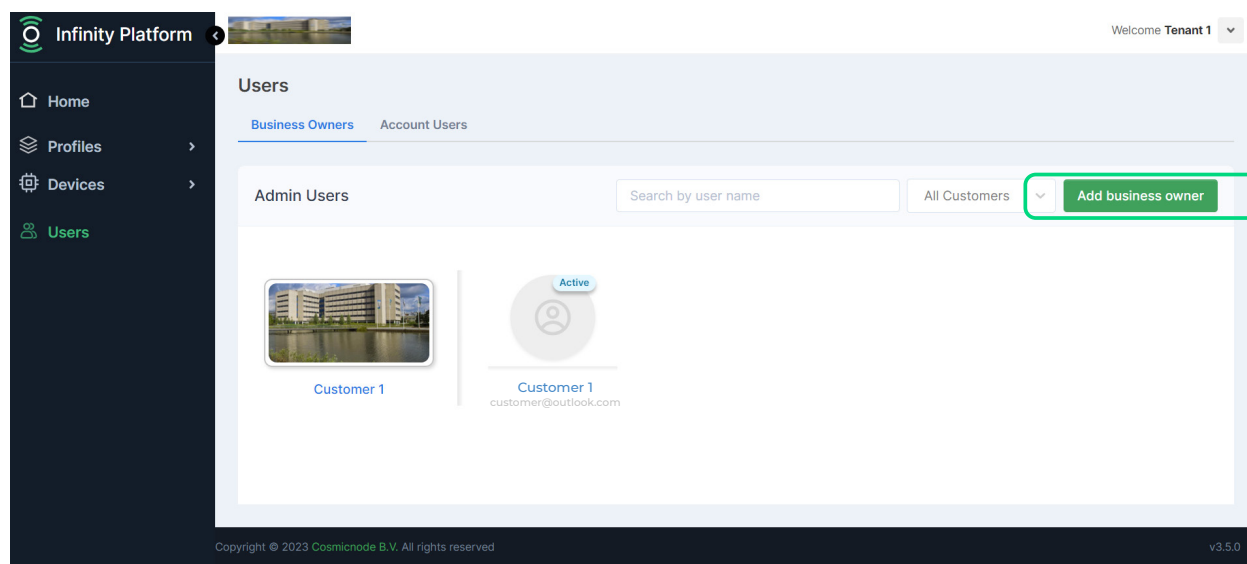5. Click 'Send invitation'

Fig. 2.6 *Go to 'Users' page*

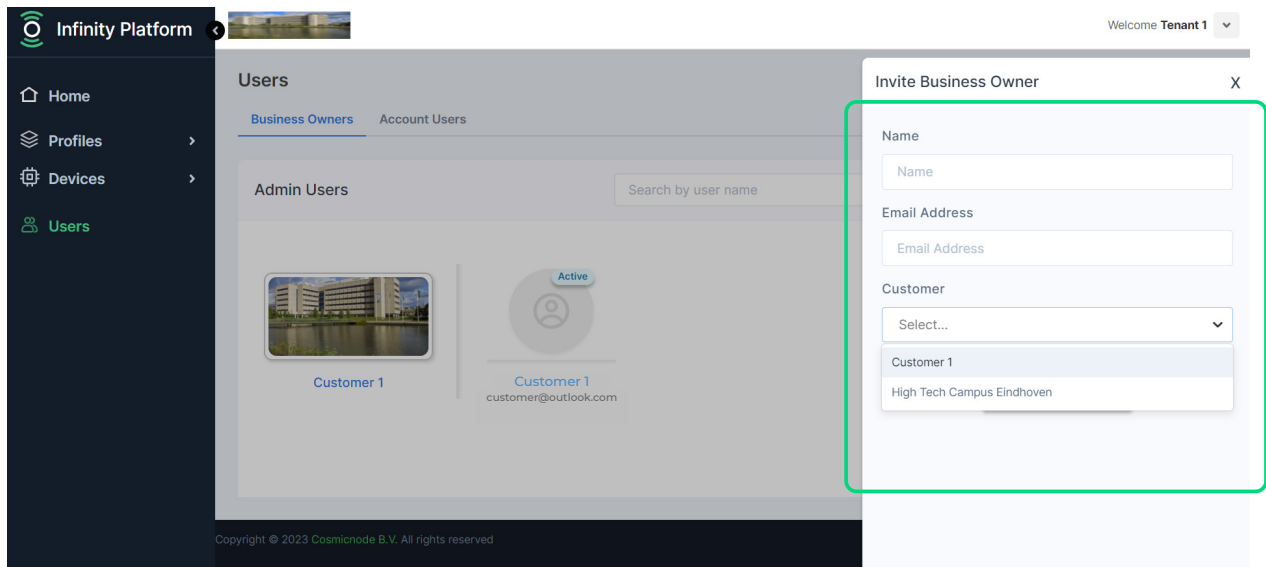**Fig. 2.7** Click on 'Add business owner' button

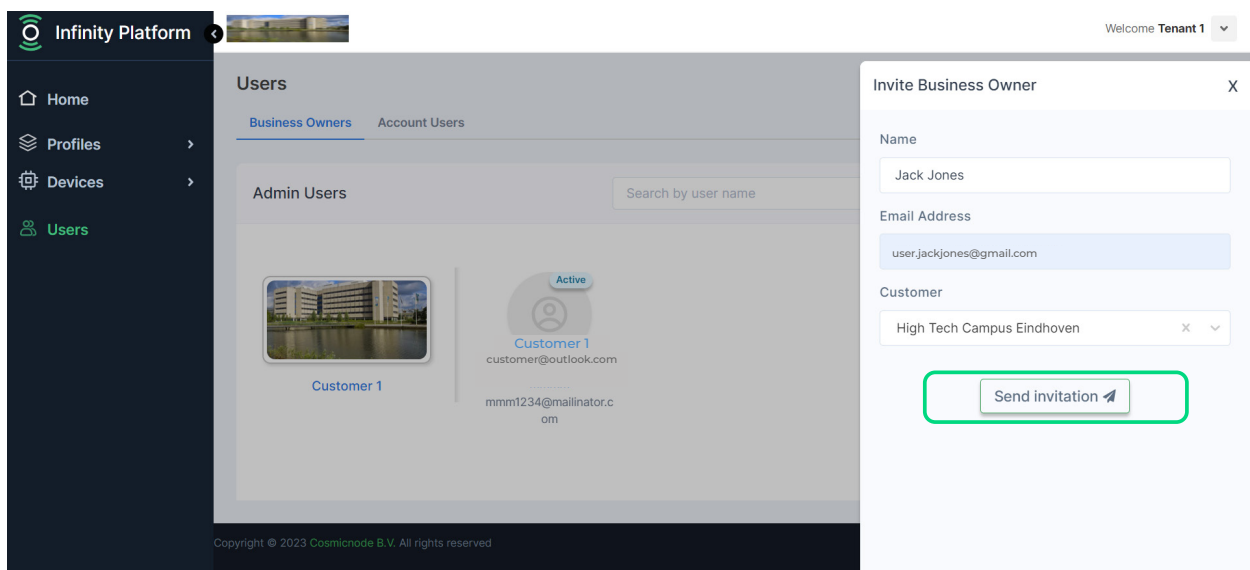*Fig. 2.8* *Fill in Business owner's Name & Email address and Select Customer*

Fig. 2.9 *After selecting the correct Customer, click ' Send invitation'*
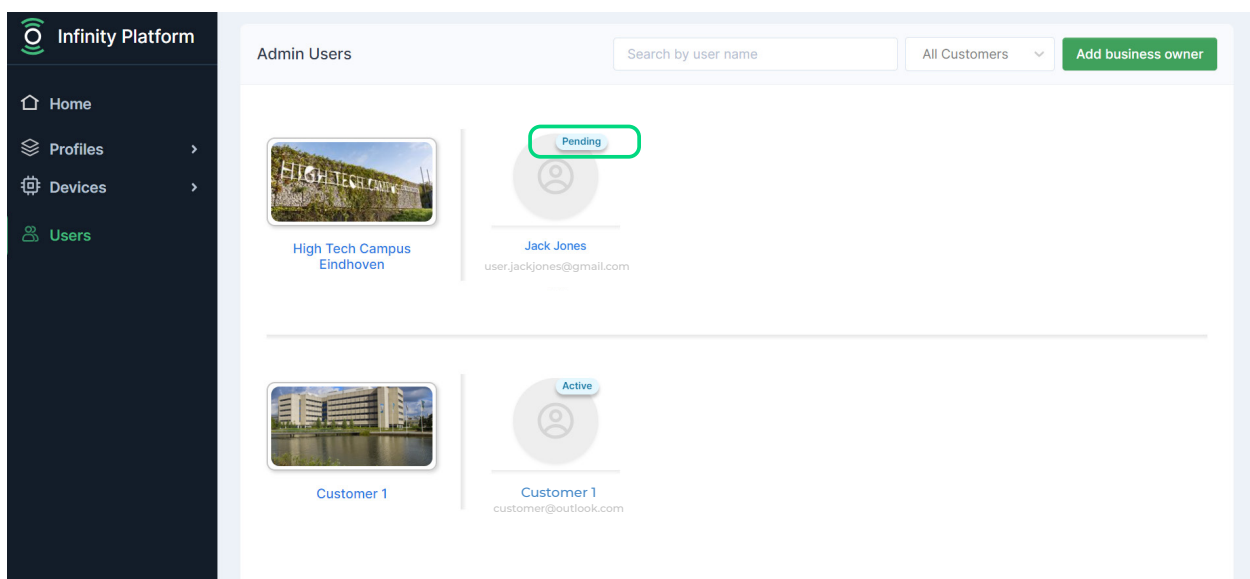

Fig. 2.10 *The new customer profile is created, but not yet activated, as can be seen on the ' Pending' note on the customer's profile*

Customer activation

The new Customer creation will be activated as soon as the Business owner accepts the invitation.

1. After an invitation is sent by a Tenant Admin, the Business owner should receive the invitation email
2. The Business owner needs to click 'Accept' on the invitation email
3. A new page will show up, where they can set their password & activate their account
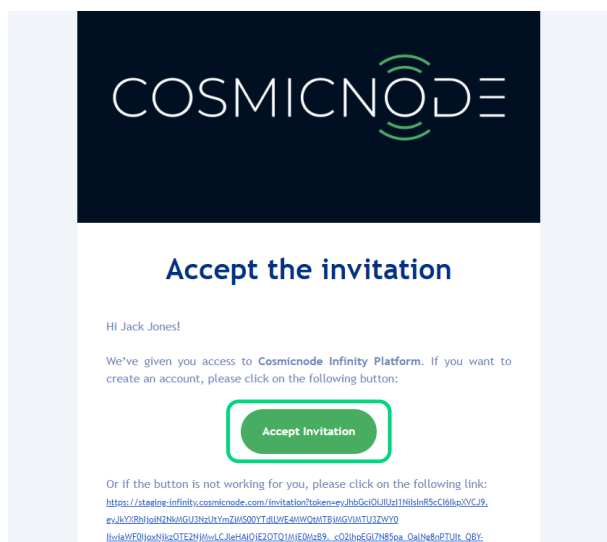4. The new Business owner profile is now completed and activated.

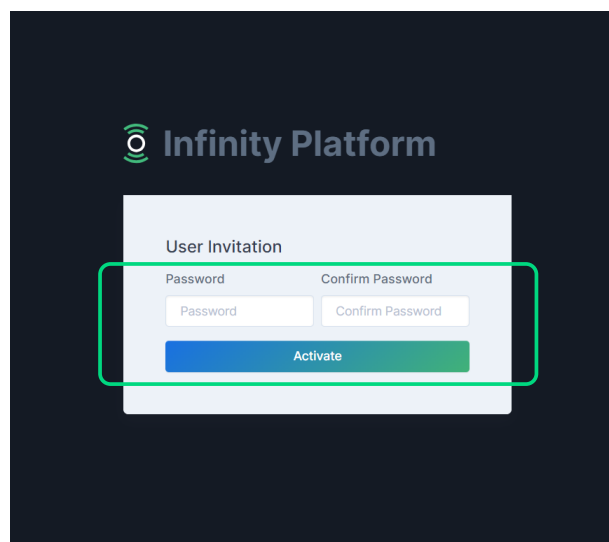**Fig. 2.11** *The Business owner has to click 'Accept invitation'*

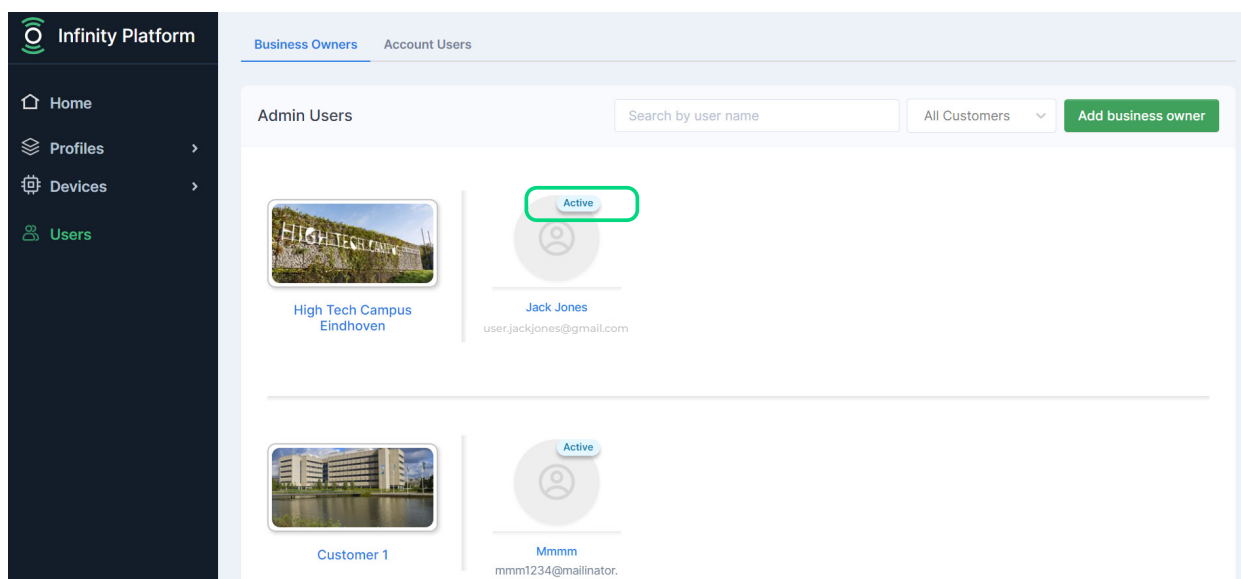**Fig. 2.12** *The Business owner has to set their password and click 'Activate'*

Fig. 2.12 *The new Business owner profile is now 'Active'*

Different customer roles

1. After logging in as a Business Owner, click on 'Users' tab on the left column
2. Click on '+ New User'
3. Select the Site(s) you want
4. Select the Building(s) - if you don't select any buildings, all buildings from the list will be automatically selected
5. Select the Floor(s) - if you don't select any floor, all floors from the list will be automatically selected
6. Fill in the Name, email address and select a role* for the new user (you can only select one role)
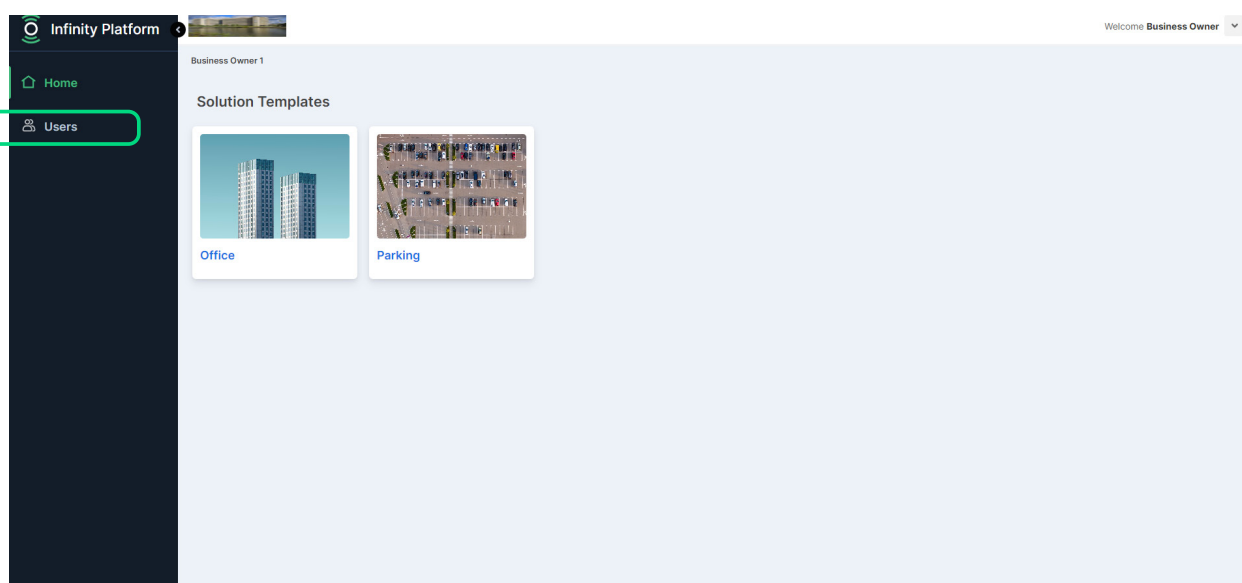7. Click 'Send invitation'

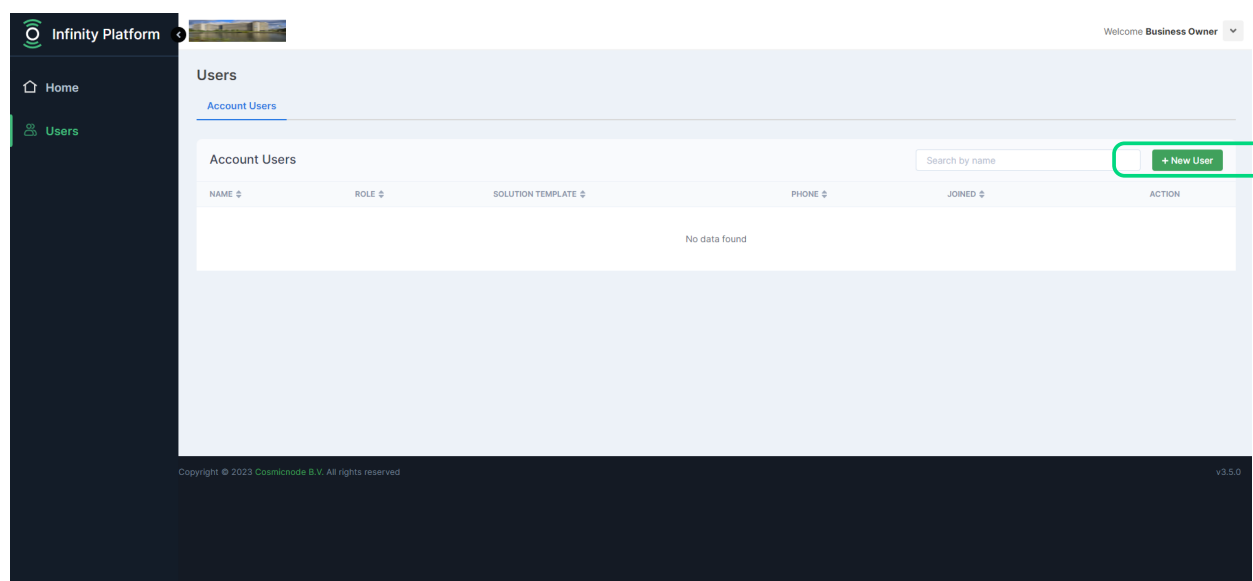**Fig. 2.13** *On the Home page of Business Owner account, click on 'Users' tab*

Fig. 2.14 *Click on '+ New user'*
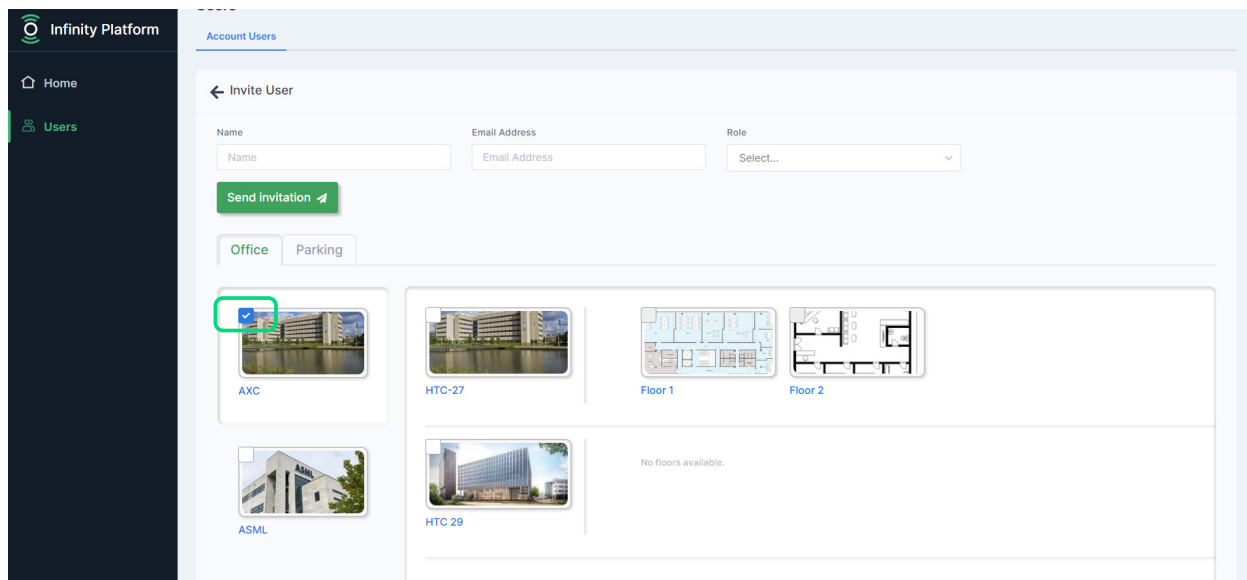
*details on permissions for each role can be found on p.53

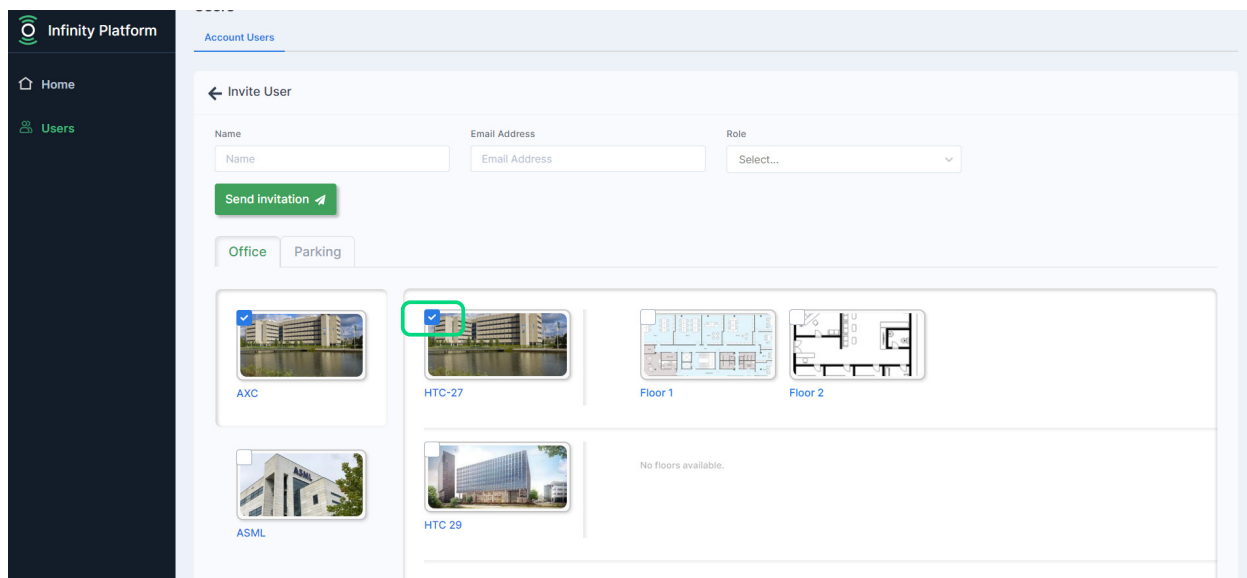**Fig. 2.15** *Select the site(s) you want*

Fig. 2.16 *Select the building(s) you want - if no selection is made all the buildings will be automatically selected*
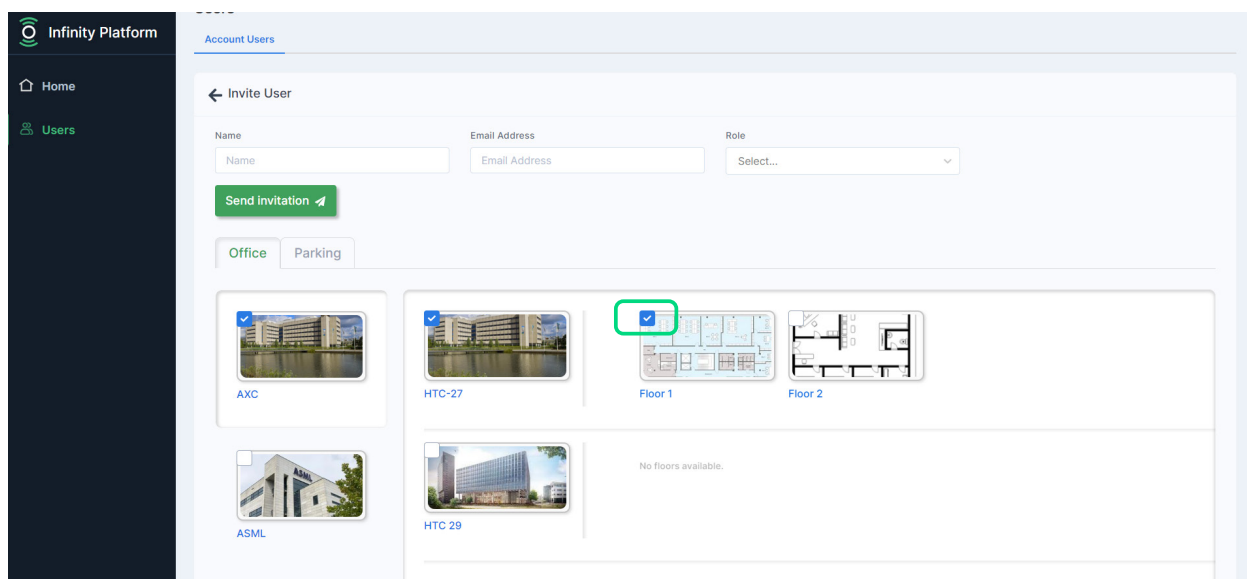

Fig. 2.17 *Select the floor(s) you want - if no selection is made all the floors will be automatically selected*

Fig. 2.18 *Fill in the Name, email address and select the role for the new user*

Fig. 2.19 *Click on 'Send invitation'*

Fig. 2.20 *User account appears as "pending" until the user accepts the invitation*

Updating roles & permissions

1. After logging in as a Business Owner, click on 'Users' tab on the left column
2. Click on the User you want to edit
3. Click 'Edit Role and Permissions'
4. Edit the role and the permissions
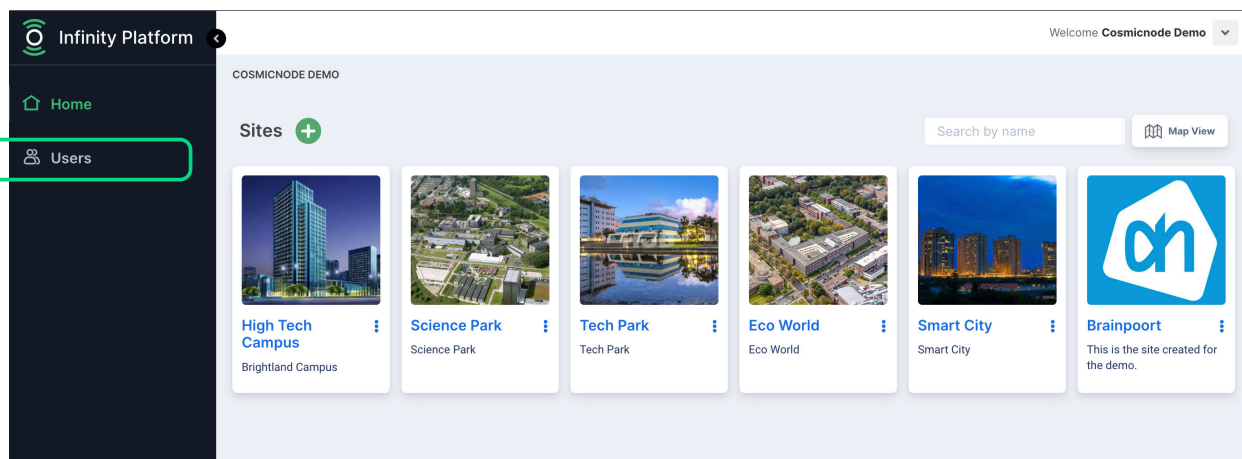5. Click 'Save changes'

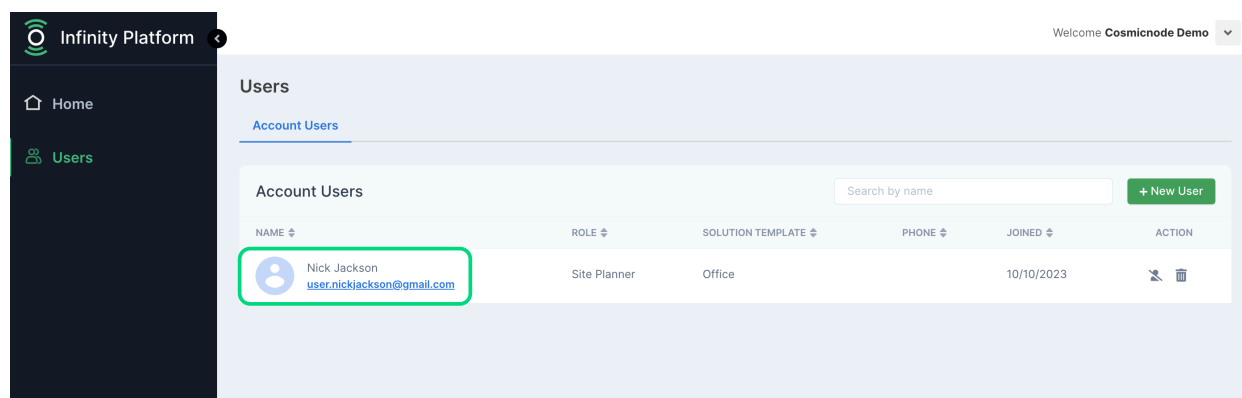**Fig. 2.21** *Click on 'Users' tab*

Fig. 2.22 *Click on the user you want to edit*
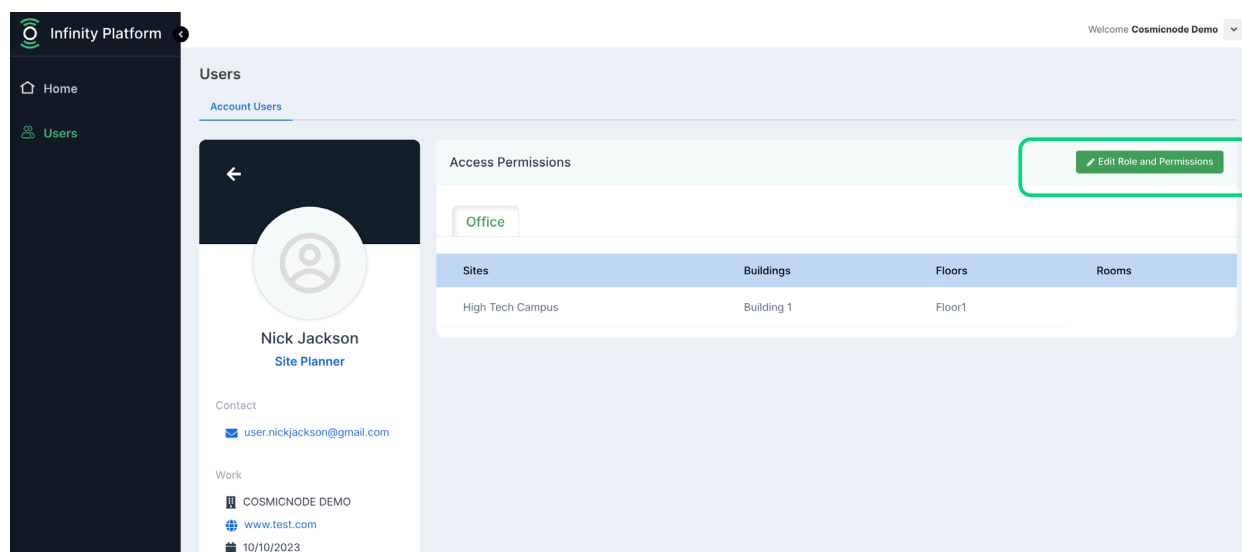

Fig. 2.23 *Click on 'Edit role & permissions'*
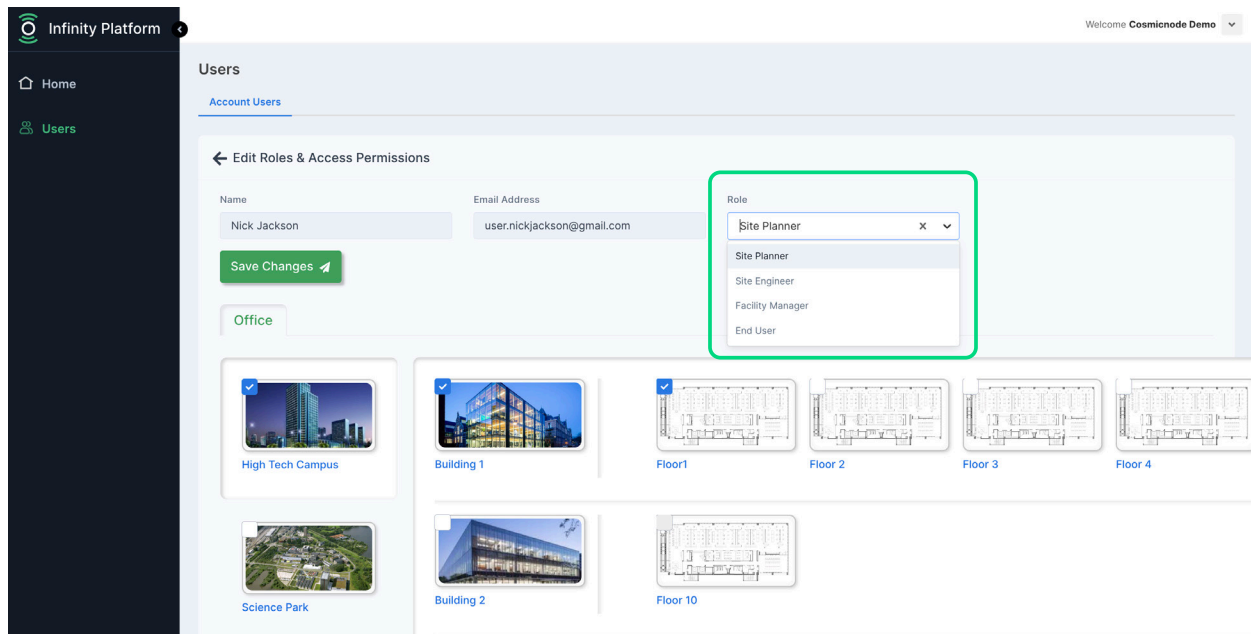
Fig. 2.24 *Click on the 'Role' tab to edit role*
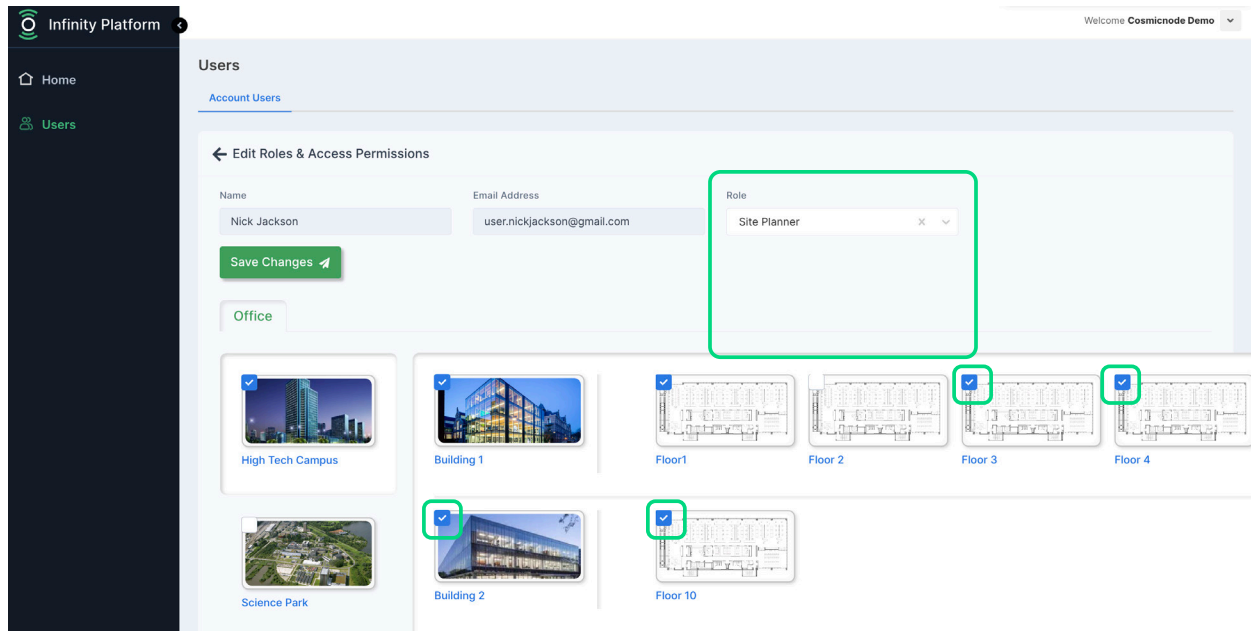

Fig. 2.25 *Tick or untick the Buildings & Floors to change permission*
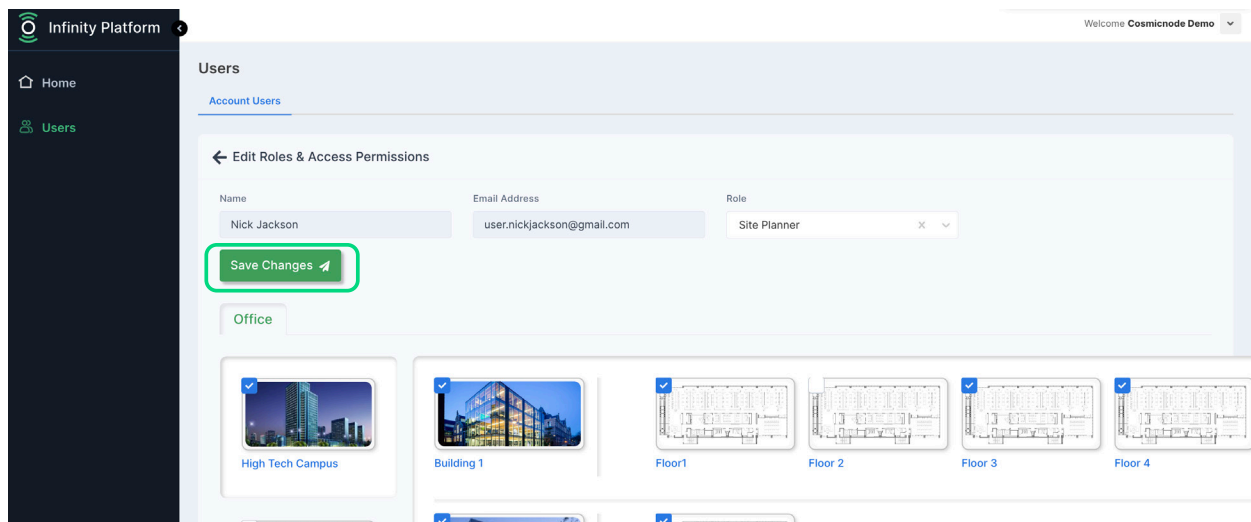

Fig. 2.26 *Click on 'Save changes'*

Off-site Commissioning

General information

Multi-Tenant and Site Management:
Platform allows to manage multiple customers and multiple sites under a Tenant account
Grid/Map View:
Platform allows to view sites & customers in Map View or in Grid View
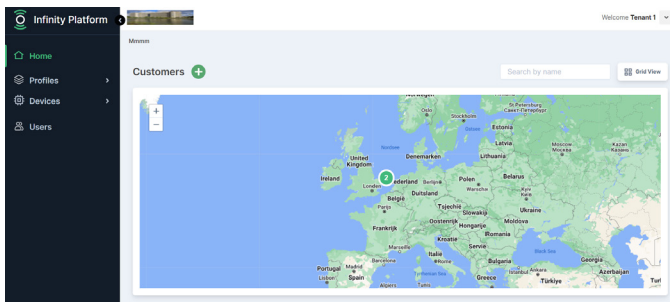
Fig. 3.1 Map view
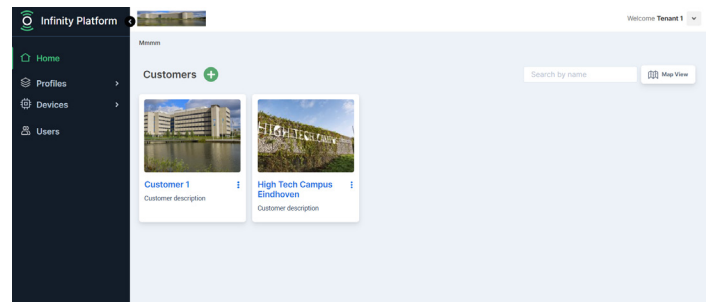
Fig. 3.2 Grid view

Solution Template:
A solution template is a pre-made set of content, activities, and assessments that can be used to create set of module. Solution templates can save time and effort by providing a ready-made framework that can be customized to meet the specific needs of the Customer.

Site:
A site can be described by its location & size. The location of a site is important for its accessibility. The size of a site is important for the amount of space that is available for the project.

Building:
A building can be described by its size & name in a site. The size of a building is important for the amount of space that is available for its occupants.

Floor plan:
A floor plan is a two-dimensional representation of a floor of a building, showing the walls, rooms, and other features. It is typically drawn to scale, and it can be used to plan the layout of a space

Site creation

1. At the Home page, click on the customer profile you want to add sites to.
2. Select the Solution Template you want to add sites to *(if you have selected one template only, skip this step)*
3. On Sites environment, click on 'Create Site'
4. Fill in the information about the new Site and click 'Create'
5. The new Site is now added on the Sites dashboard
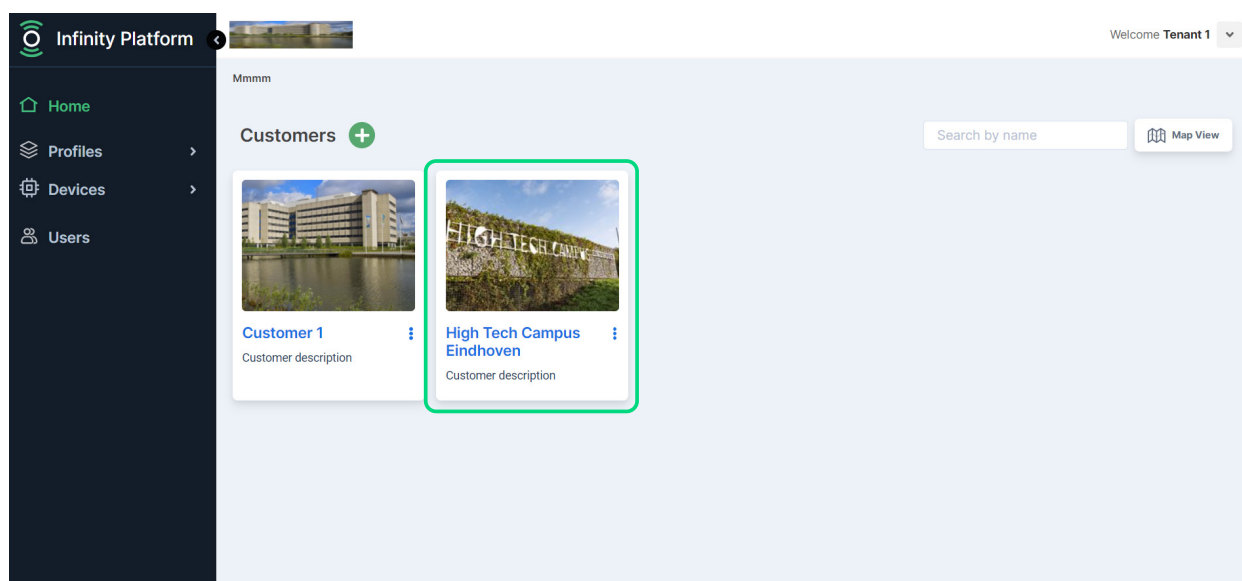
Fig. 3.3 *Select the Customer profile you want to add sites to*
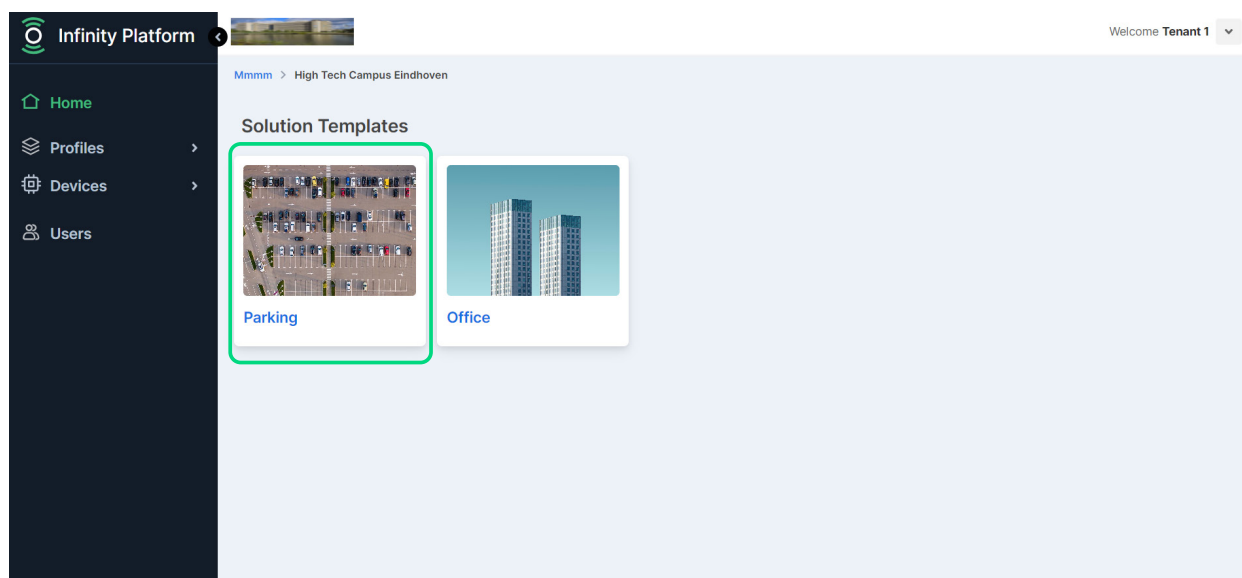
Fig. 3.4 *Select the Solution Template you want to add sites to (if you have selected one template only, skip this step)*
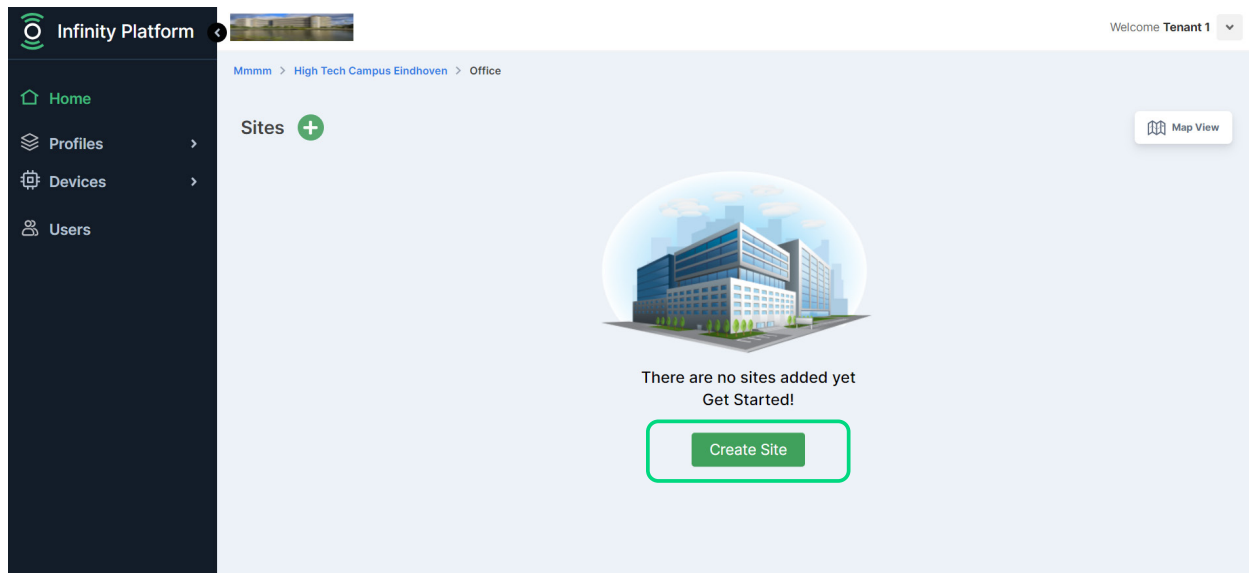
Fig. 3.5 *Click on 'Create Site'*
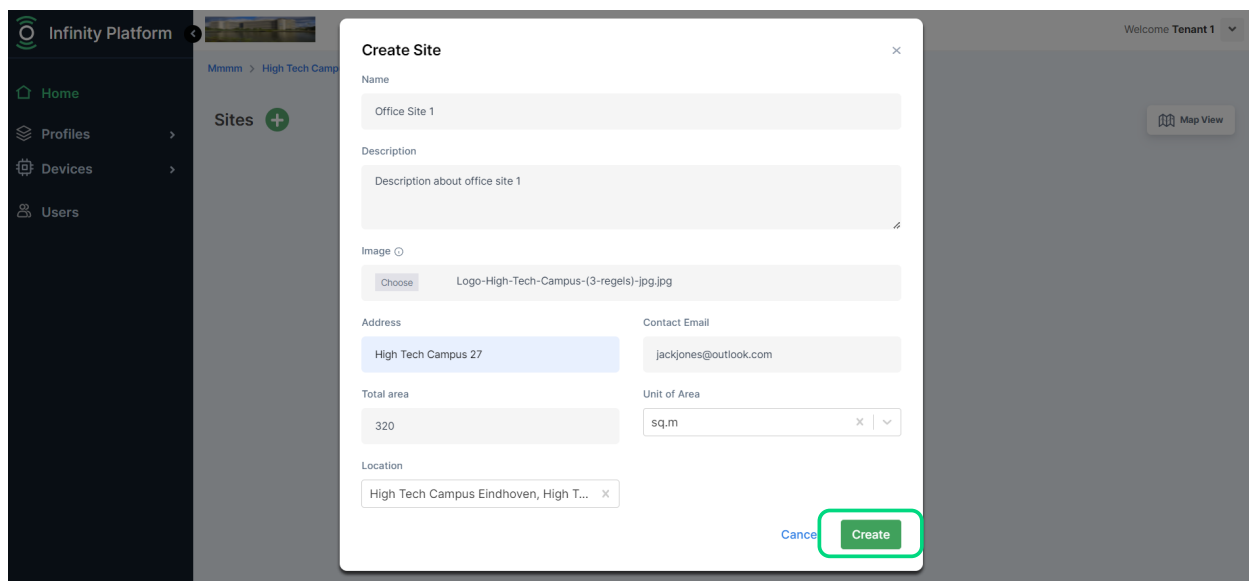
Fig. 3.6 *Fill in the Site information and click 'Create'*
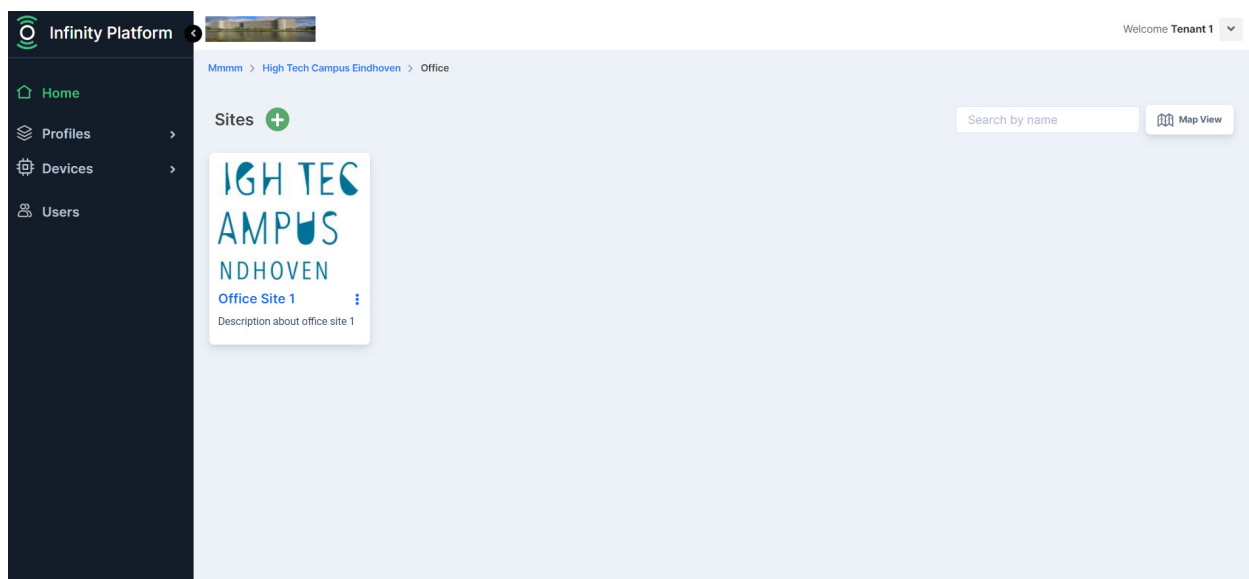
Fig. 3.7 *The new Site is created and can be found in the Sites dashboard*

Building creation

1. At the Site dashboard, click on the Site you want to add Buildings to.
2. Click on 'Create Building'
3. Fill in the information about the new Building and click 'Create'
4. The new Building is now added on the Building dashboard
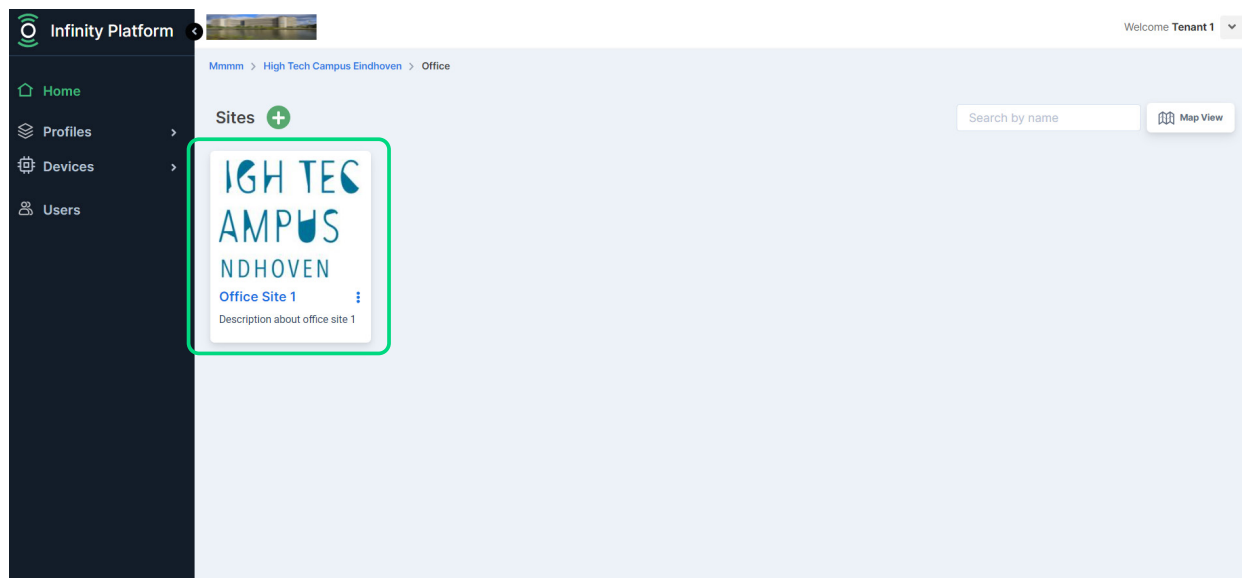
Fig. 3.8 *Click on the Site you want to add buildings to*
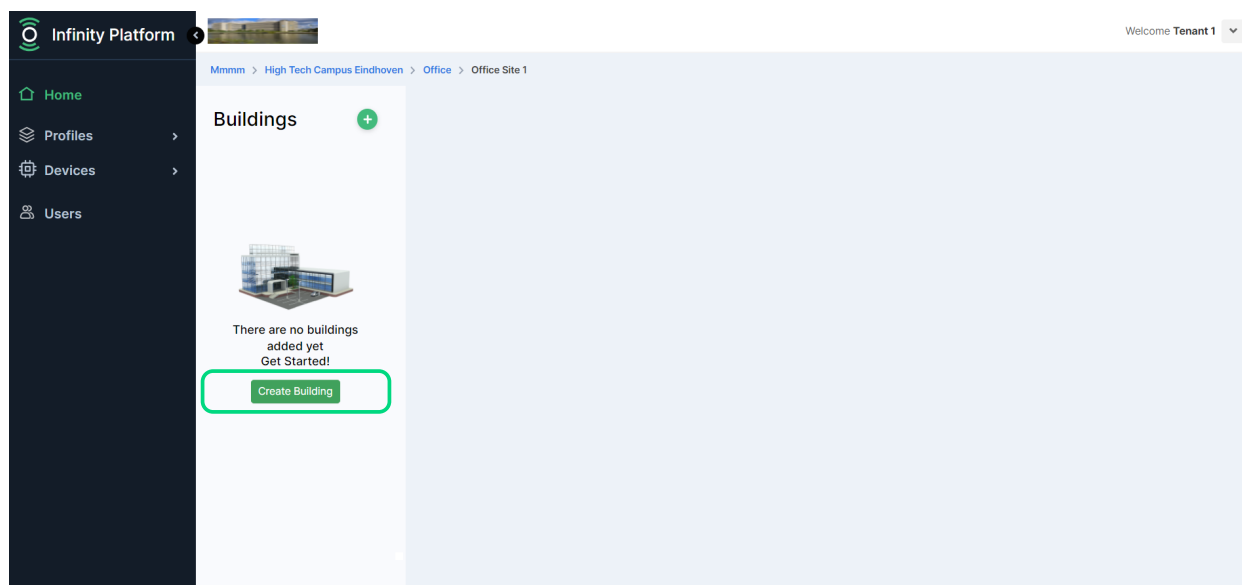
Fig. 3.9 *Click on 'Create Building'*

Fig. 3.10 *Fill in the building information and click 'Create'*

Fig. 3.11 *The new Building profile is ready and canbe found in Buildings dashboard.*

Floor creation

1. At the Building dashboard, click on 'View floors' button of the Building profile you want to add floors to
2. Click on 'Create Floor'
3. Fill in the information about the new Floor, including the image of the floor plan (very important) and click 'Add'
4. The new Floor is now added on the Floors dashboard

Fig. 3.12 *Click on 'View floors' under the Building profile you want to add floors to*
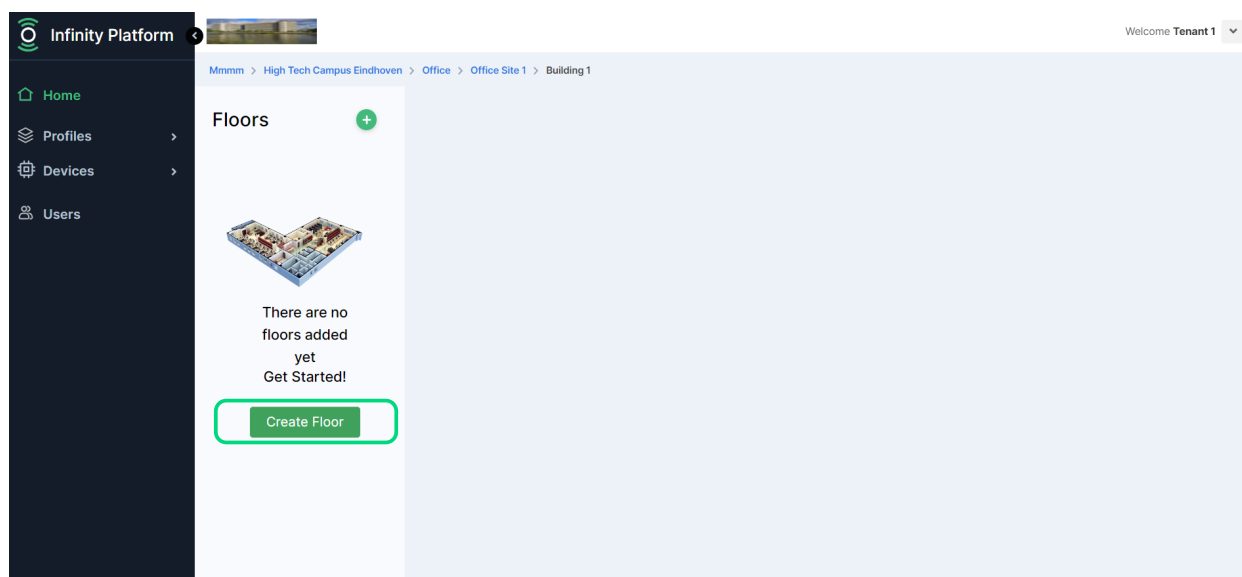
Fig. 3.13 *Click on 'Create floor'*

Fig. 3.14 *Fill in the Floor information, upload the correct floor plan image and click 'Add'*
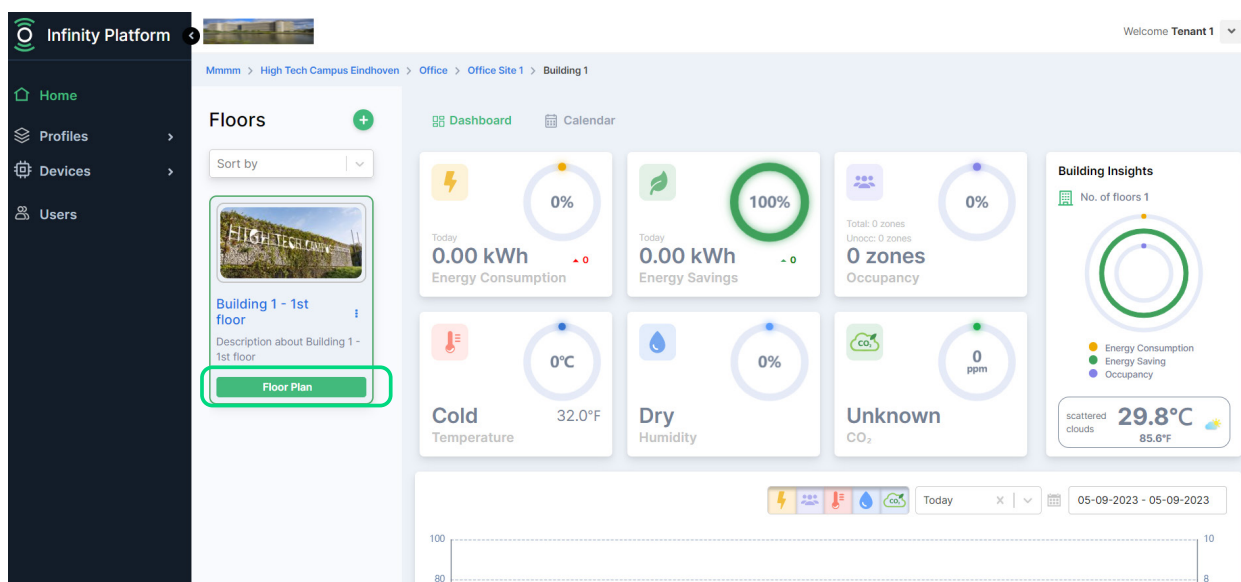
Fig. 3.15 *The new Floor profile is created and can be found in the Floors dashboard. Click on 'Floor Plan'*
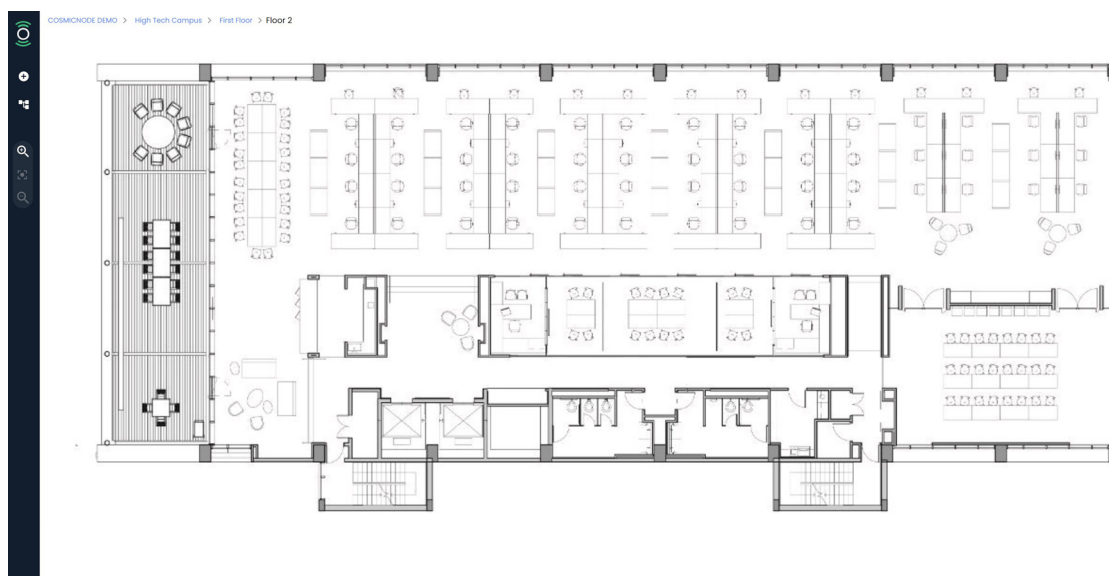
Fig. 3.16 *View the Floor plan*

Add Gateway

1. At Floor plan view, click on the '+' symbol on the left
2. On the new tab on the right, select 'Add Gateway'
3. Place the cursor on part of the floor plan that the Gateway should be placed
4. Confirm the Gateway addition by clicking 'Add'on the pop-up dialog
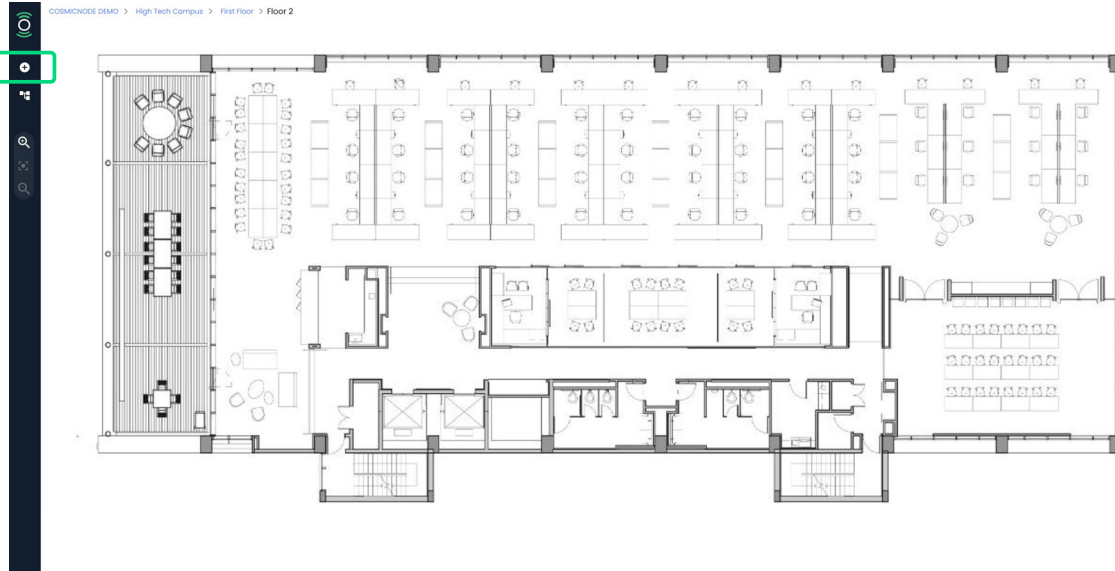
Fig. 3.17 *At the Floor Plan view, click on '+'*
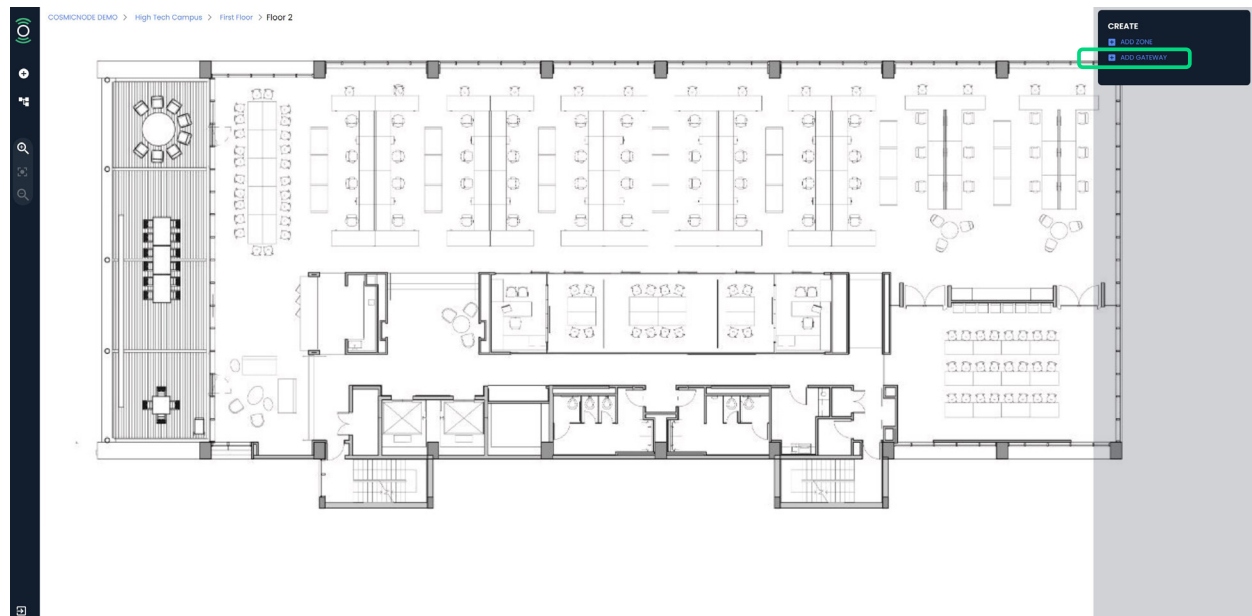
Fig. 3.18 *Click 'Add Gateway'*
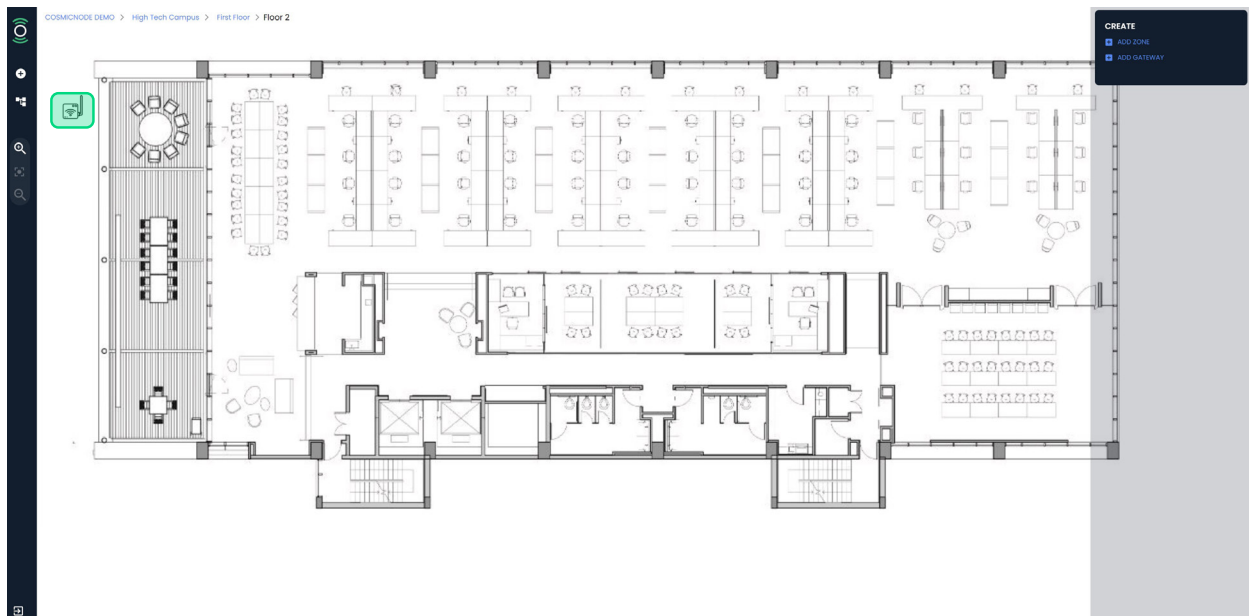
Fig. 3.19 *Place the Gateway cursor wherever you want to add a Gateway*
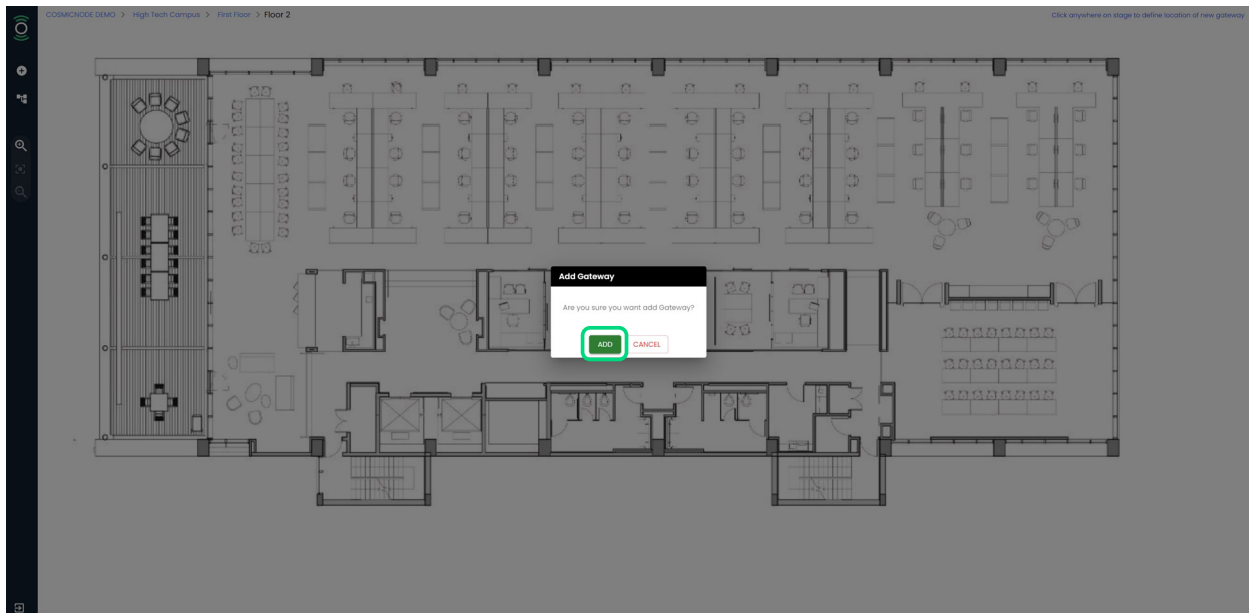
Fig. 3.20 *Click 'Add' to confirm the Gateway addition*
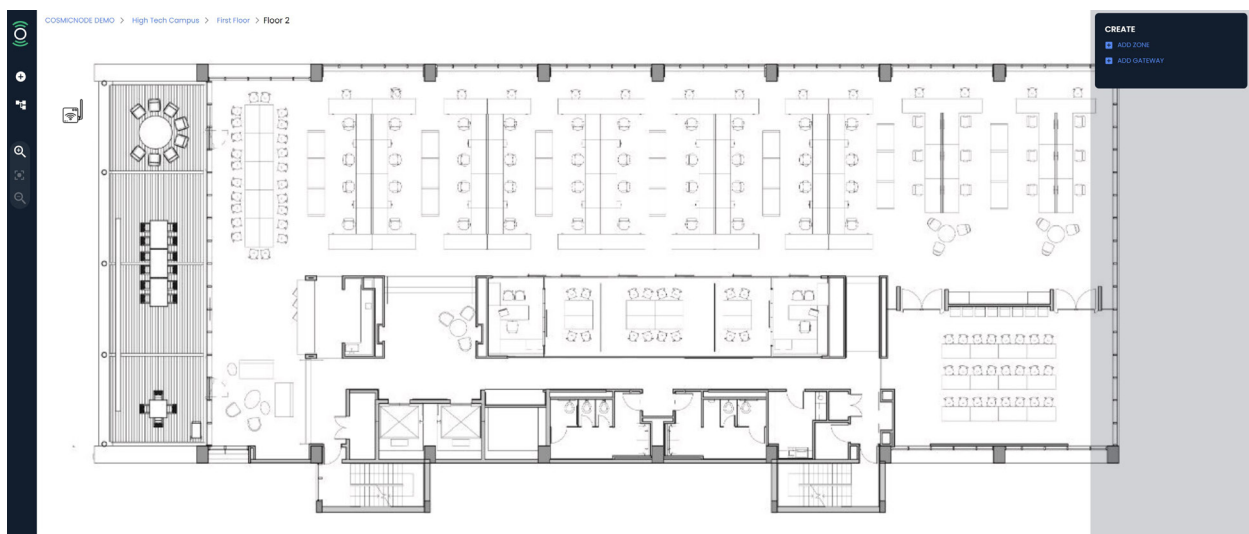
Fig. 3.20a *You can now see the Gateway symbol on the floor plan*

Add Zone

1. At Floor plan view, click on the '+' symbol on the left
2. On the new tab on the right, select 'Add Zone'
3. Place and drag the cursor to determine the Zone area on the floor plan
4. Fill in the Zone info and provide correct value for all the fields: *lighting, lamp profiles and number of lamps*
5. Click 'Create'

Fig. 3.21 *At the Floor Plan view, click on '+'*
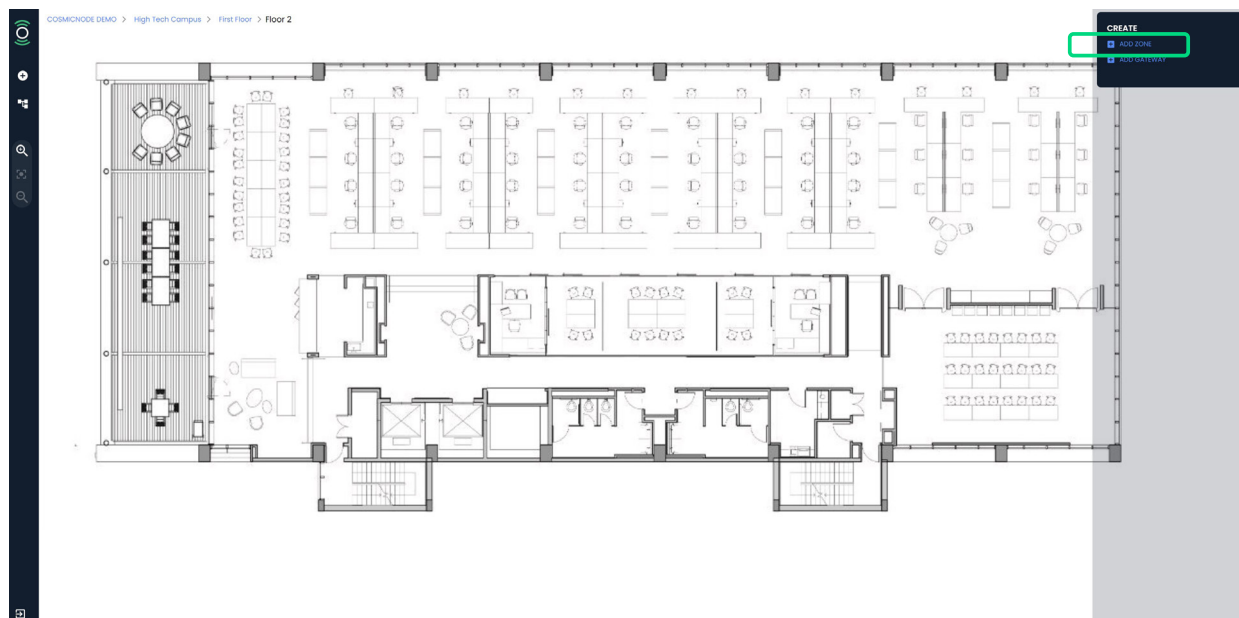
Fig. 3.22 *Click 'Add Zone'*

Important: If the wrong type of lamp profile is chosen then you will not see the lights on the iPad app when commissioning on-site. Thus, it is highly important to select the correct lamp profile, otherwise, devices will not be able to be provisioned.
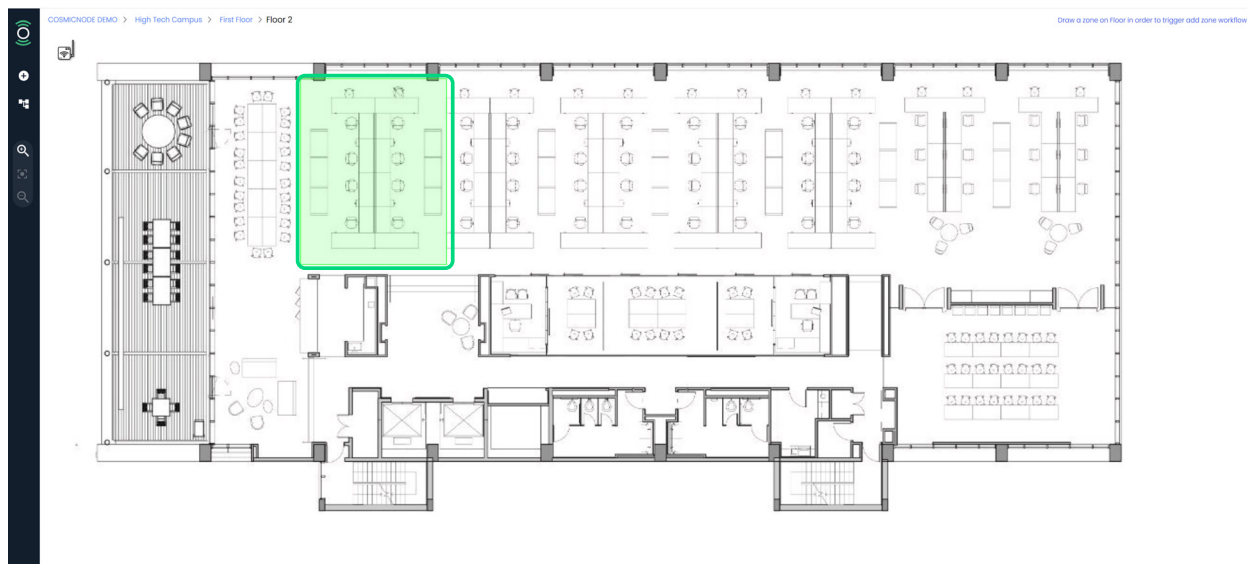
Fig. 3.23 *Click and drag the cursor to determine the Zone area*

Fig. 3.24 *Fill in the Zone name and Zone profiles and click 'Create'*

Please note:

The lights and/or sensors you add on the web platform are not functional, until you provision them on the Infinity Controls App (see p.27). **You can provision and remove devices only from the Infinity Controls App.** After the provision, everything can be controlled both on the Web Infinity Platform and the Infinity Controls App.

Create Zone

1. Click on the zone you want to edit
2. On the blue tab on the right, you have the option to **create lights/sensors, move, resize, edit or remove** the zone.

a. Create lights or sensors

1. Click on the zone you want to edit
2. On the blue tab on the right, select 'lights' or 'sensors' andclick on the '⊕' symbol to add a lights or sensors.
3. Select the correct profile and click 'Add'
4. Click anywhere in the zone to add the light/sensor
5. Press 'Add' to confirm your action

Fig. 3.25 *Select the zone, select the correct profile and click 'Add'*

Fig. 3.26 *Click & place the new device anywhere inside the zone*

Fig. 3.27 *Confirm your action by clicking 'Add'*

b. Move zone

1. Click on the zone you want to move
2. On the blue tab on the right, click on the '⬧' symbol to move the zone (the zone outline becomes dashed)
3. Click and drag the zone anywhere on the floor-plan
4. Press 'Save' to confirm your action
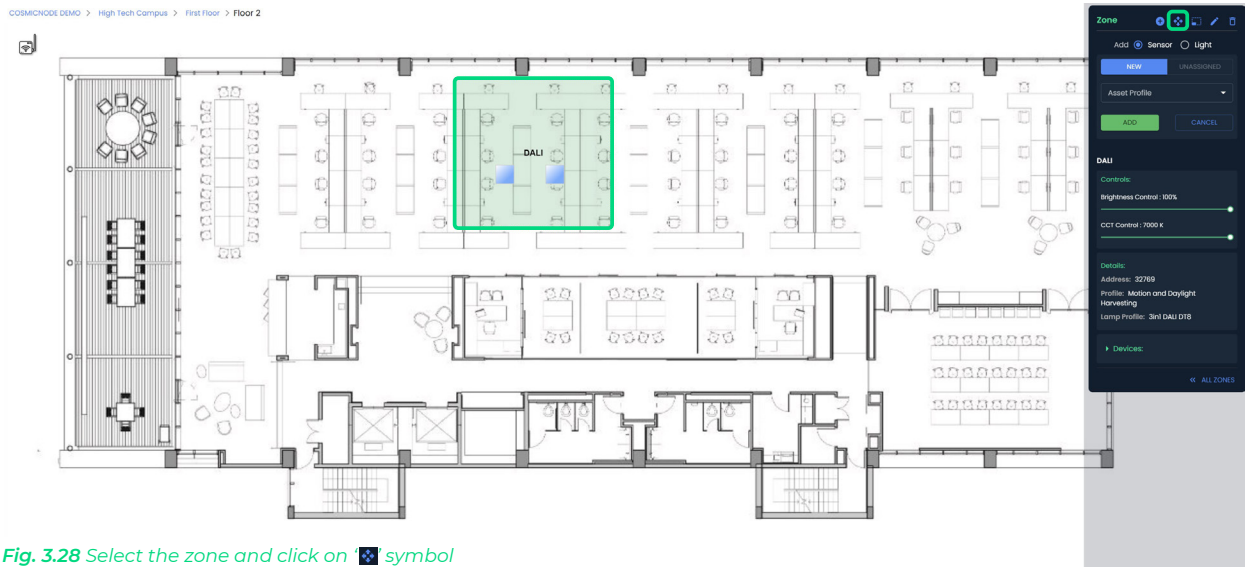
Fig. 3.28 *Select the zone and click on '⬧' symbol*
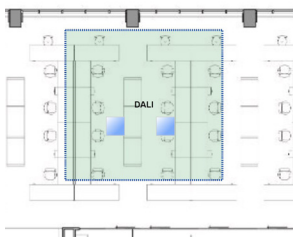
Fig. 3.29 *Notice that the zone outline becomes dashed*
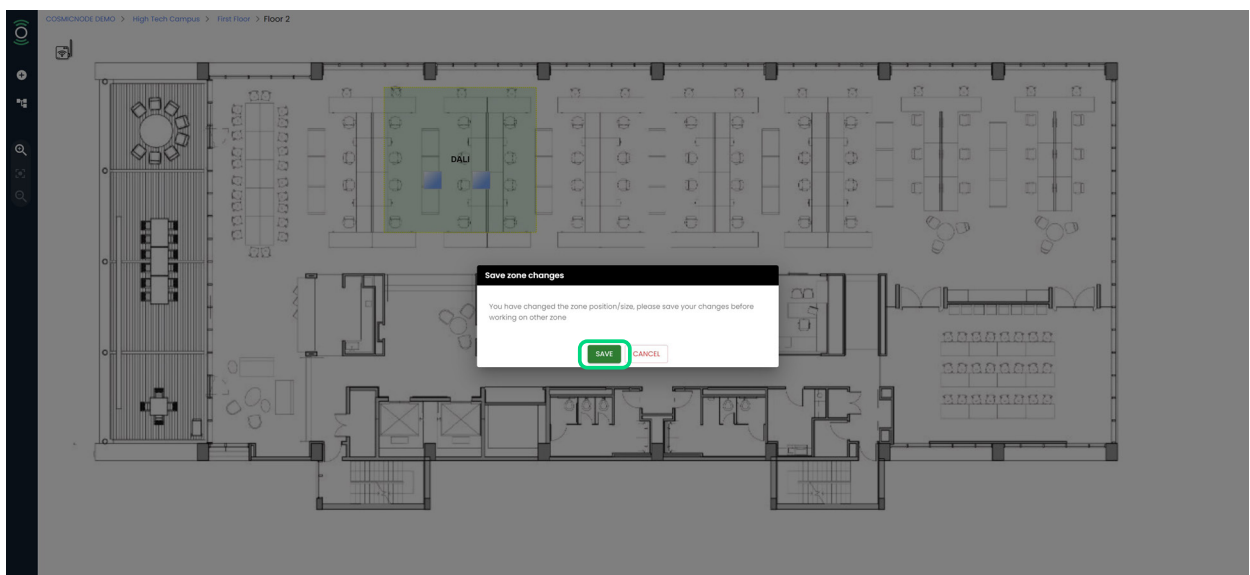
Fig. 3.30 *Confirm your action by clicking 'Save'*

c. Resize zone

1. Click on the zone you want to resize
2. On the blue tab on the right, click on the '▦' symbol to resize the zone (the zone outline has now handles)
3. Click and drag the zone handles to resize the outline
4. Press 'Save' to confirm your action
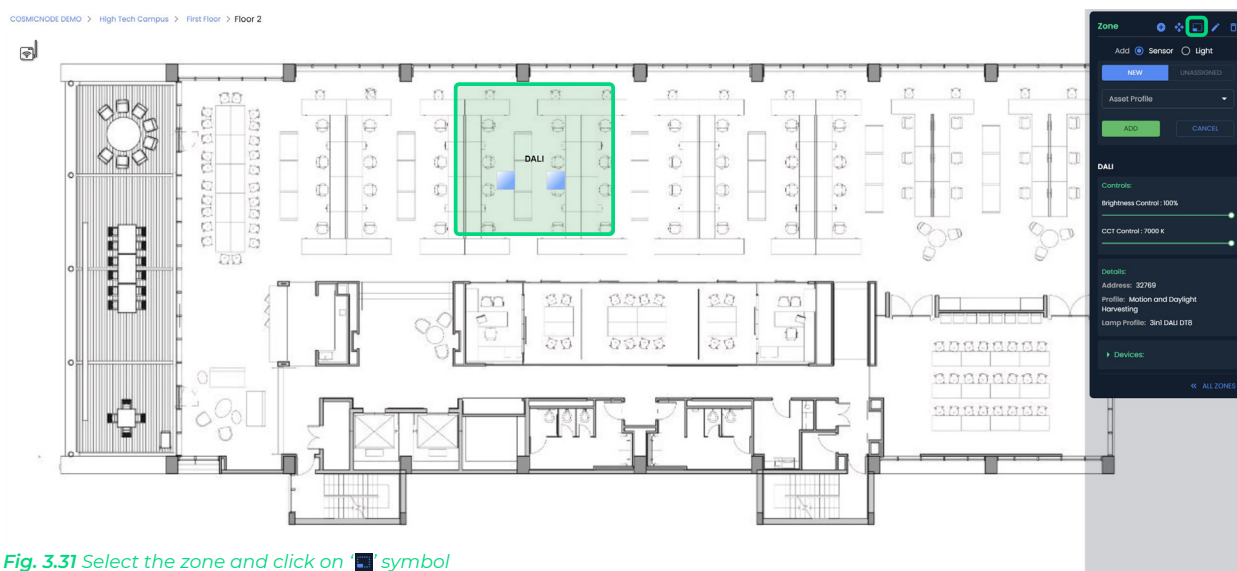
Fig. 3.31 *Select the zone and click on '▦' symbol*
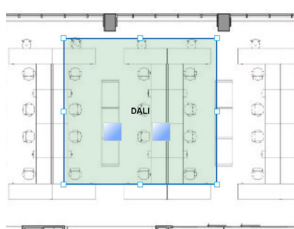
Fig. 3.32 *Notice that the zone outline has now handles*

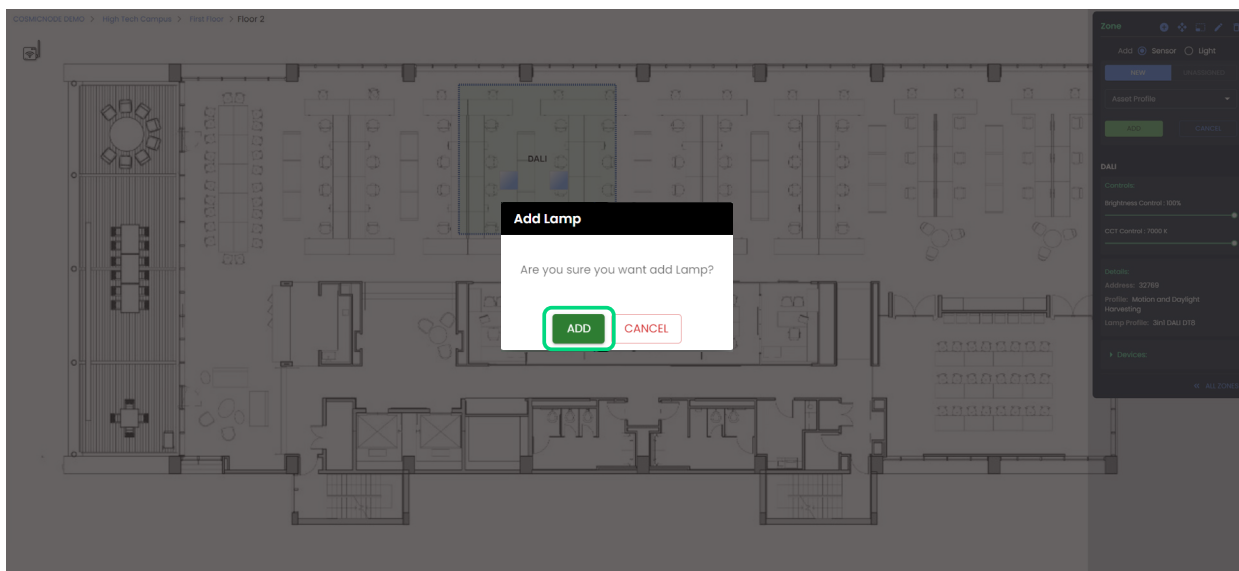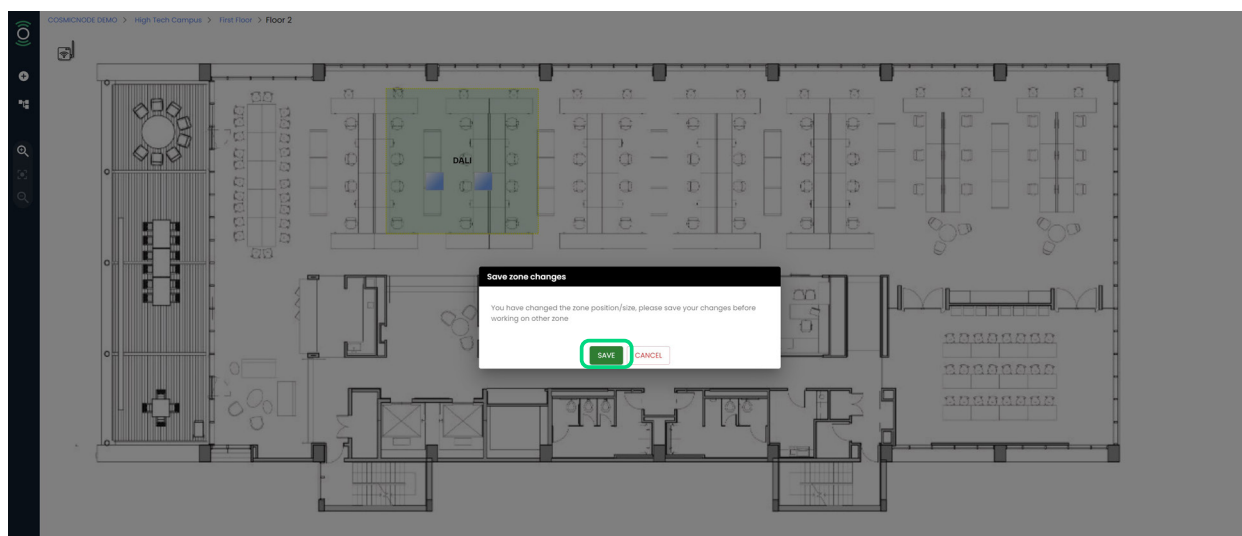**Fig. 3.33** *Confirm your action by clicking 'Save'*

d. Edit zone

1. Click on the zone you want to edit
2. On the blue tab on the right, click on the '✏️' symbol to edit the zone
3. On the pop-up menu, edit the fields you want
4. Press 'Save' to confirm your action
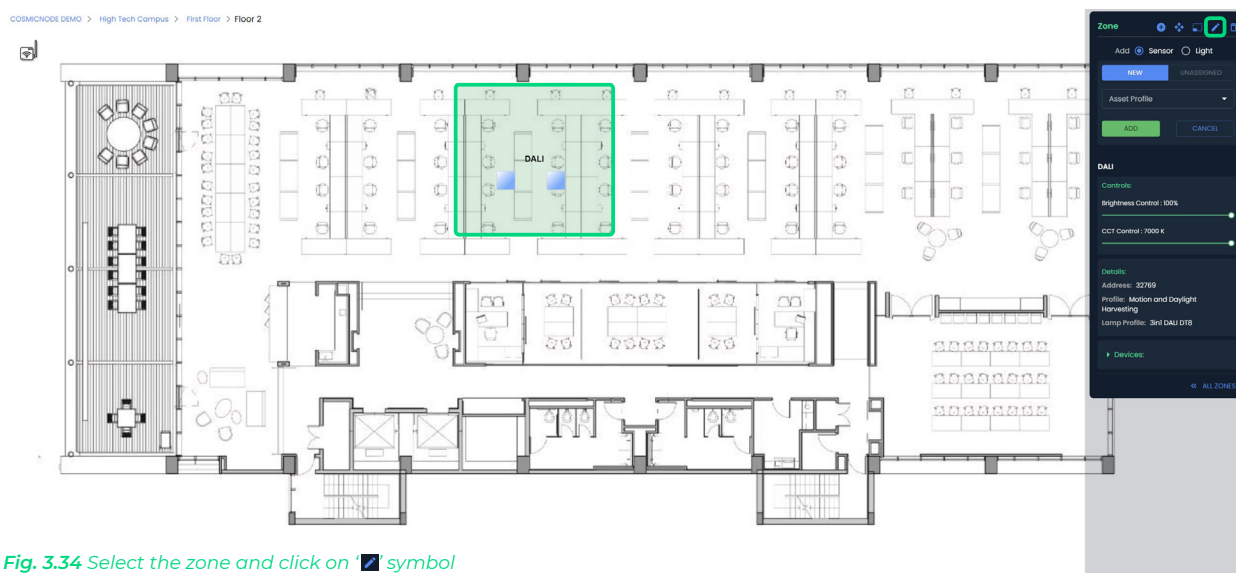
Fig. 3.34 *Select the zone and click on '✏️' symbol*
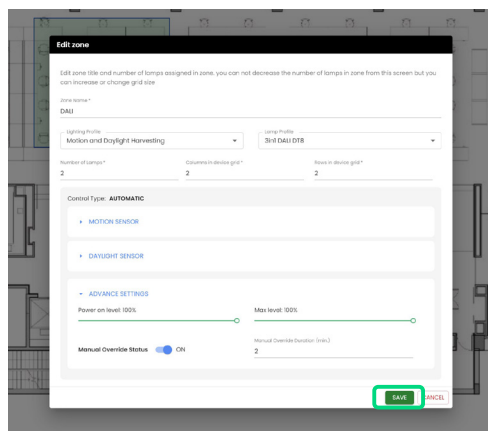
Fig. 3.35 *Edit the zone fields you want and click 'Save'*

e. Remove zone

1. Click on the zone you want to remove
2. On the blue tab on the right, click on the '🗑' symbol to delete the zone
3. Select whether you want to delete all devices in the zone or not
4. Press 'Remove'
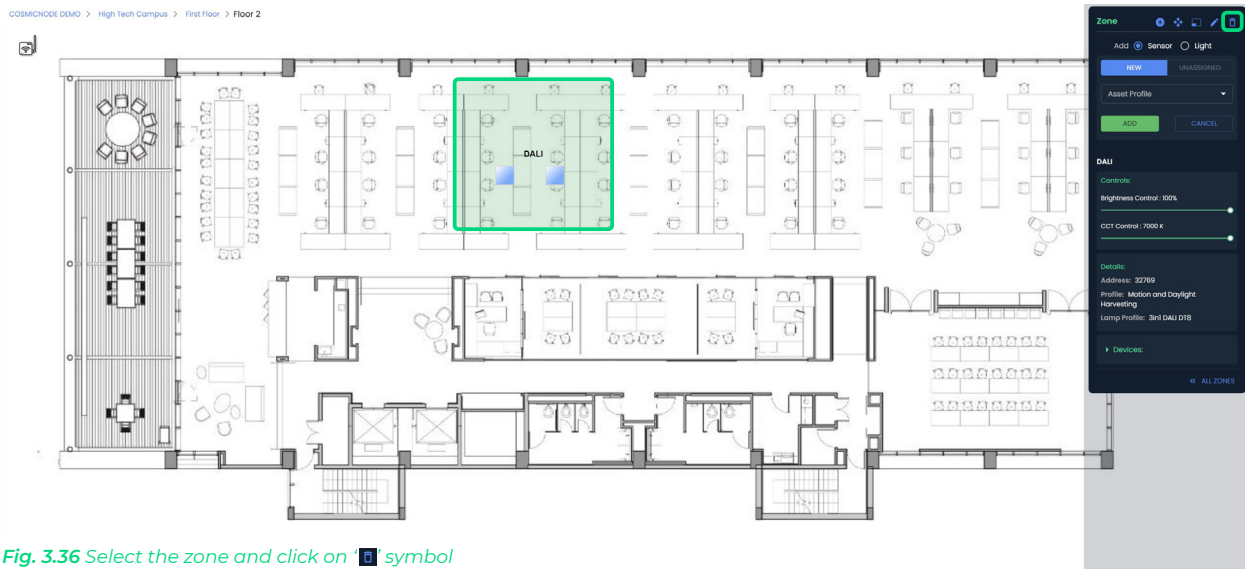
Fig. 3.36 *Select the zone and click on '🗑' symbol*

Fig. 3.37 *Choose if you want to delete all devices in the zone and click 'Remove'*

Please note:

The lights and/or sensors you add on the web platform are not functional, until you provision them on the Infinity Controls App (see p.27). **You can provision and remove devices only from the Infinity Controls App.** After the provision, everything can be controlled both on the Web Infinity Platform and the Infinity Controls App.

Add lighting profiles & assign lighting control scenarios

You can create as many lighting zones as you want, each with its own lighting control scenario. For each zone you can add the chosen sensors when necessary.

Please note:
Currently, the platform is only supporting occupancy and motion sensors.

You can determine how the lighting control system is going to operate. There are six potential profiles you can choose from:

Name	Motion sensor mode	Daylight sensor mode
Manual Control	Disabled	Disabled
Presence Detection	Presence	Disabled
Absence Detection	Absence	Disabled
Presence/Absence Detection	Presence/Absence	Disabled
Presence/Absence and Daylight Harvesting - On/Off	Presence/Absence	On Off
Presence/Absence and Daylight Harvesting - Closed Loop	Presence/Absence	Closed Loop

You can determine how the lighting control system is going to operate. There are six potential scenarios you can choose from:

Scenario	Description
No scenario	No scenario
Switch	Turns on/off or dim lighting based on your requirements
Occupancy	Turns off lighting when a space is unoccupied
Vacancy	The heating, ventilation system and the building automation systems turn off lighting when unoccupied
Daylight Harvesting	Facilities optimally utilize natural light where available and cut down on the use of artificial light during daylight hours
Conference Room	Accommodates versatile, multimedia formats. Both the screen and the speaker will be clearly visible during presentations

On-site Commissioning

Download the Infinity Controls App

Cosmicnode's Infinity Controls App can be found in iOS and it is free to download from Apple App Store.

It is supported on the following platforms: Web platform & iPad.

Users can also download Infinity platform App by scanning the following QR-code:
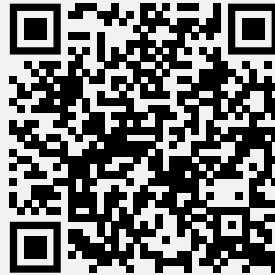
Log-in

You can log into the iPad app with the same credentials used for the Infinity platform.
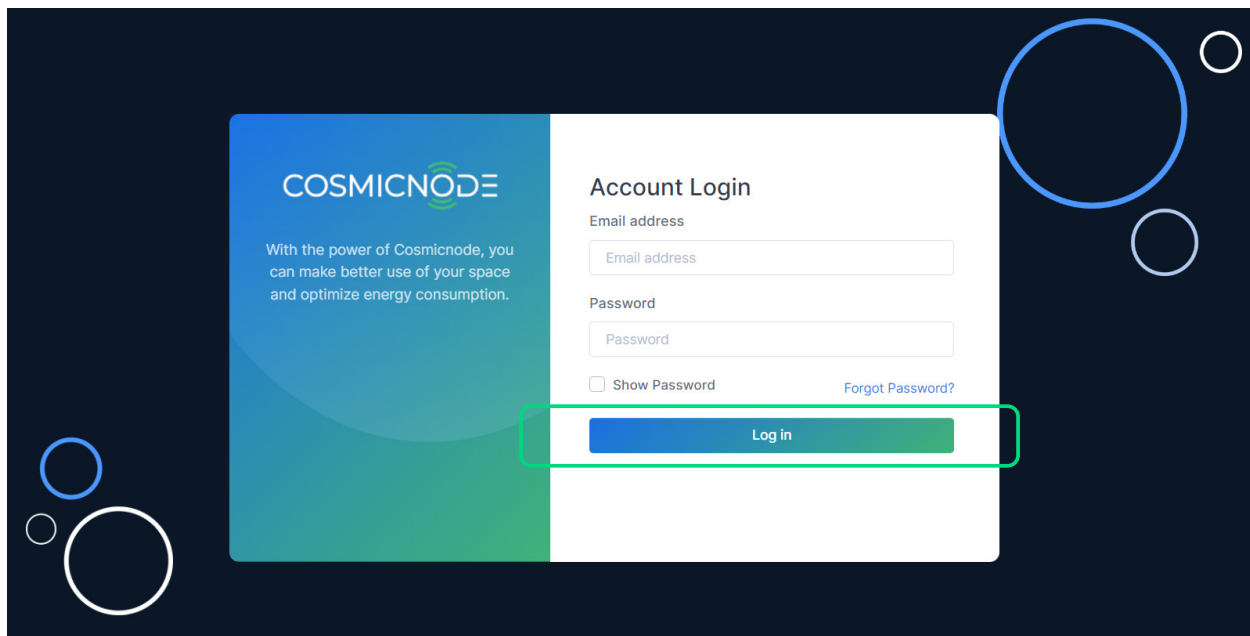
Fig. 4.1 *Fill in your credentials and click "Log in"*

Please note:

In order to successfully provision/unprovision devices, iPad and device should be in proximity with each other.

Navigate to Floors Dashboard

1. From 'Home', select the site you want
2. At 'Buildings' dashboard, select the building you want
3. In the Building dashboard, press 'View floors'
4. Click on the floor you want to make changes into
5. View the floor plan
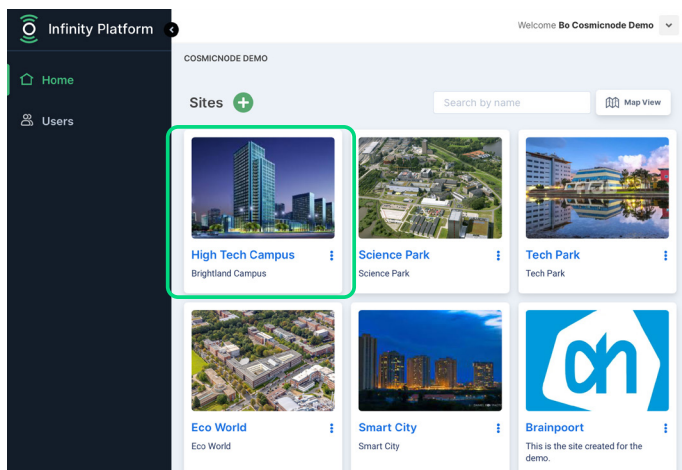
Fig. 4.2 At 'Home', select the site you want
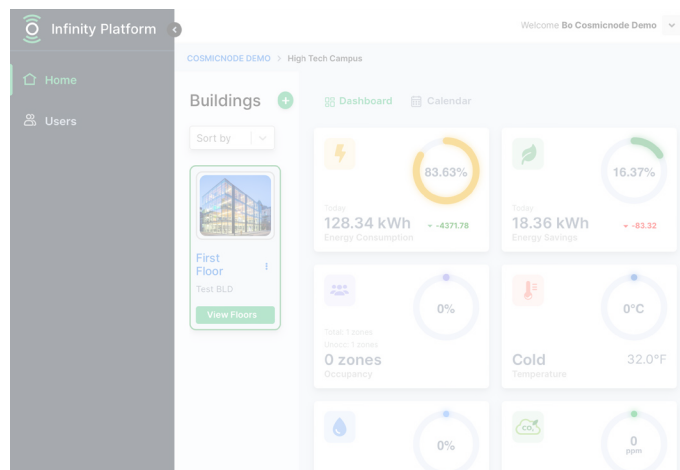
Fig. 4.3 At 'Buildings', select the building you want
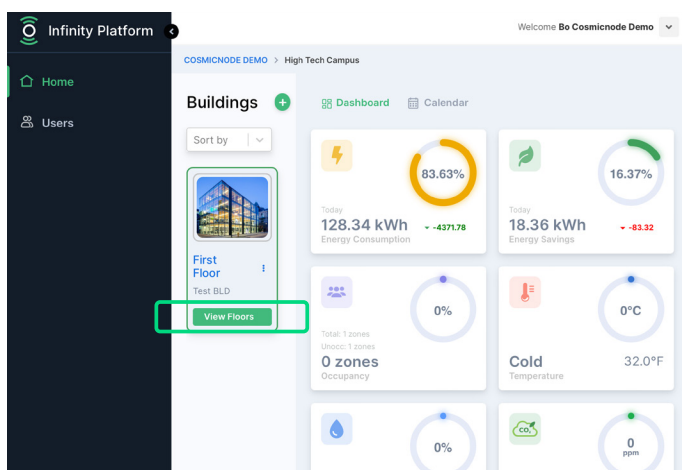
Fig. 4.4 In the Building dashboard, press 'View Floors'
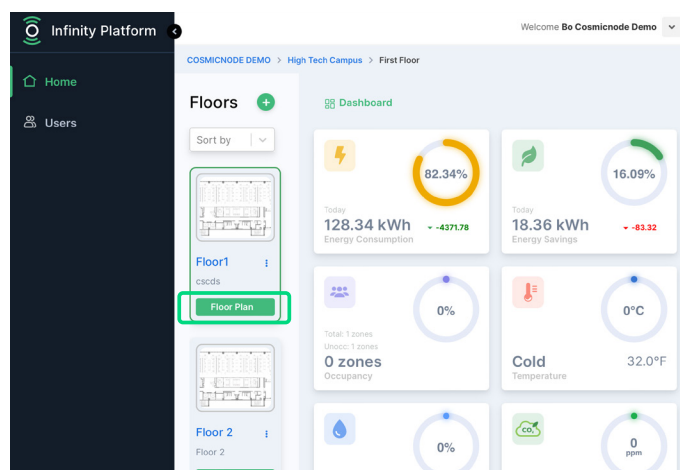
Fig. 4.5 Select the floor plan you want to make changes into
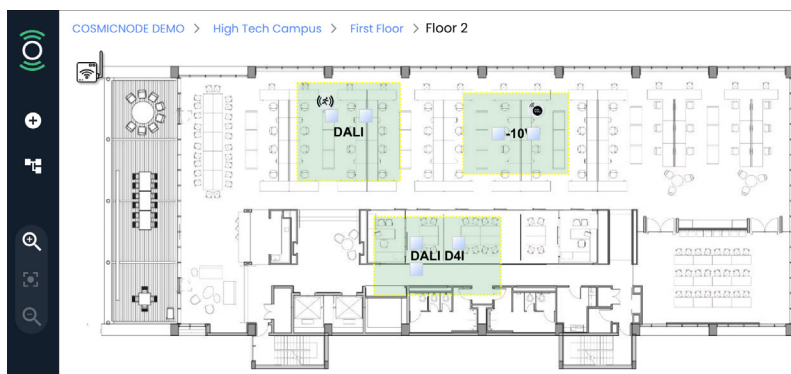
Fig. 4.6 View the floor plan, with gateways & zones created in Web Infinity Platform

Assign Gateway

1. In the floor plan you see unprovisioned/unassigned zones & devices created in Web Infinity Platform
2. Select the Gateway icon on the floor plan
3. On the dark blue tab, press 'Provision'
4. After provisioning, press 'Assign'
5. The Gateway is now connected, and its icon's color on the floor plan expresses its connection state*
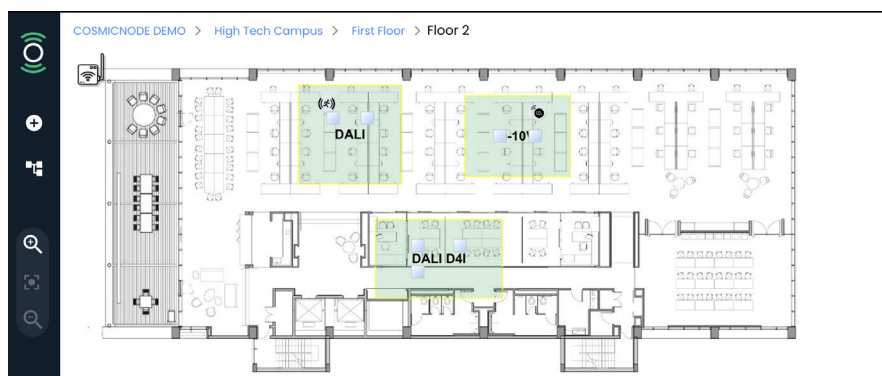
Fig. 4.6b *View the floor plan, with gateways & zones created in Web Infinity Platform*
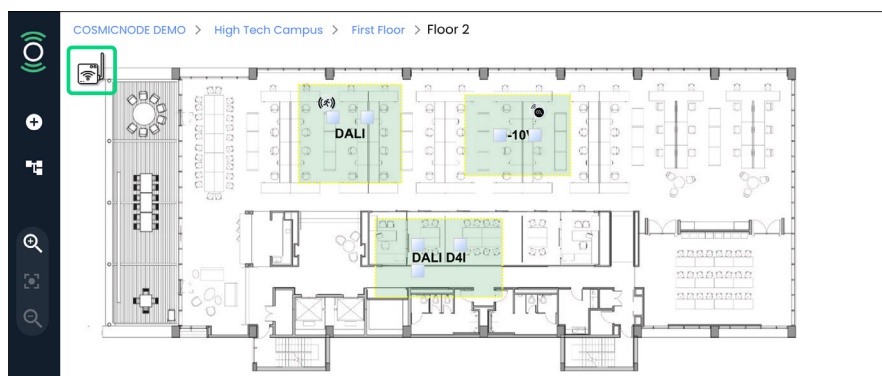
Fig. 4.7 *Click on the Gateway which is placed on the floor plan*

Fig. 4.8 *Set RSSI range to detect the Gateway*

Note:

RSSI - Received Signal Strength Indicator

A signal or circuit that indicates the strength of the incoming (received) signal in a receiver.
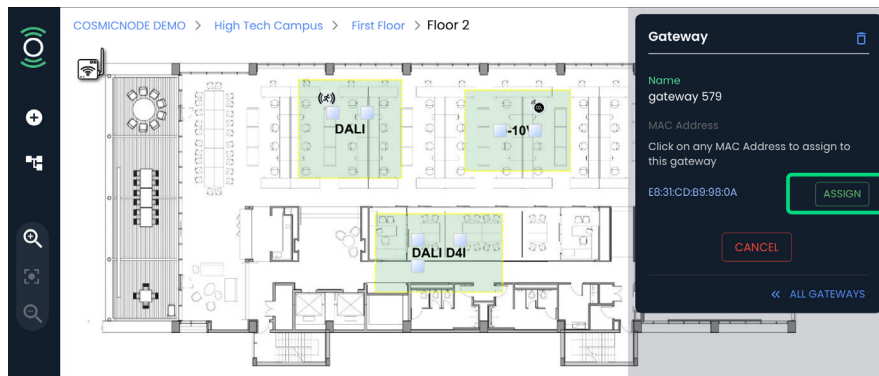
Fig. 4.9 *After provisioning is completed, press 'Assign'*
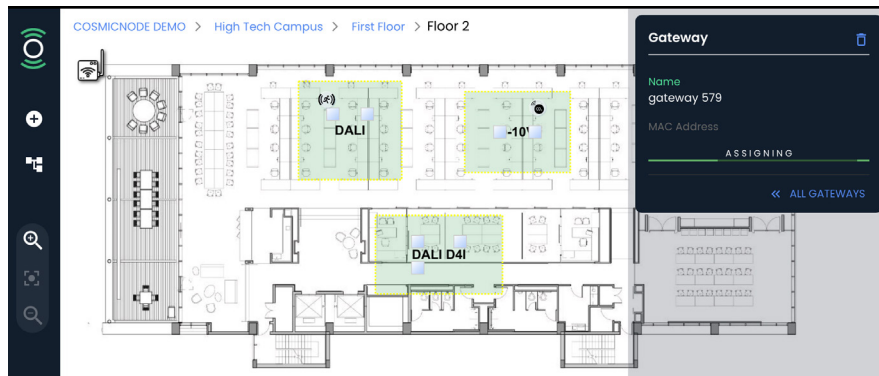
Fig. 4.10 *Wait for the assigning to be completed*

Fig. 4.11 *When the Gateway is assigned, its icon on the floor plan changes**

*Please note:

The Gateway icon color on the floor plan expresses its connection state:

White: The Gateway is unprovisioned

Grey: The Gateway is provisioned, but not yet connected with any other devices on the floor

Red: The Gateway is provisioned, but offline

Blue: The Gateway is provisioned, and connected to other devices on the floor

Provisioning Devices

a. Batch Provisioning - Auto

1. In the floor plan, click on one zone
2. On the dark blue tab, under Batch Provisioning, select 'Auto'
3. Set the RSSI
4. Select devices which needs to be provisioned
5. Press ' Start'
6. Wait for the progess bar to appear
7. Wait for the provisioning to be completed
8. After provisioning of one devices the lamp will blink and the device icon will turn yellow

The user can anytime stop the Auto provisioning, by clicking on 'cancel'
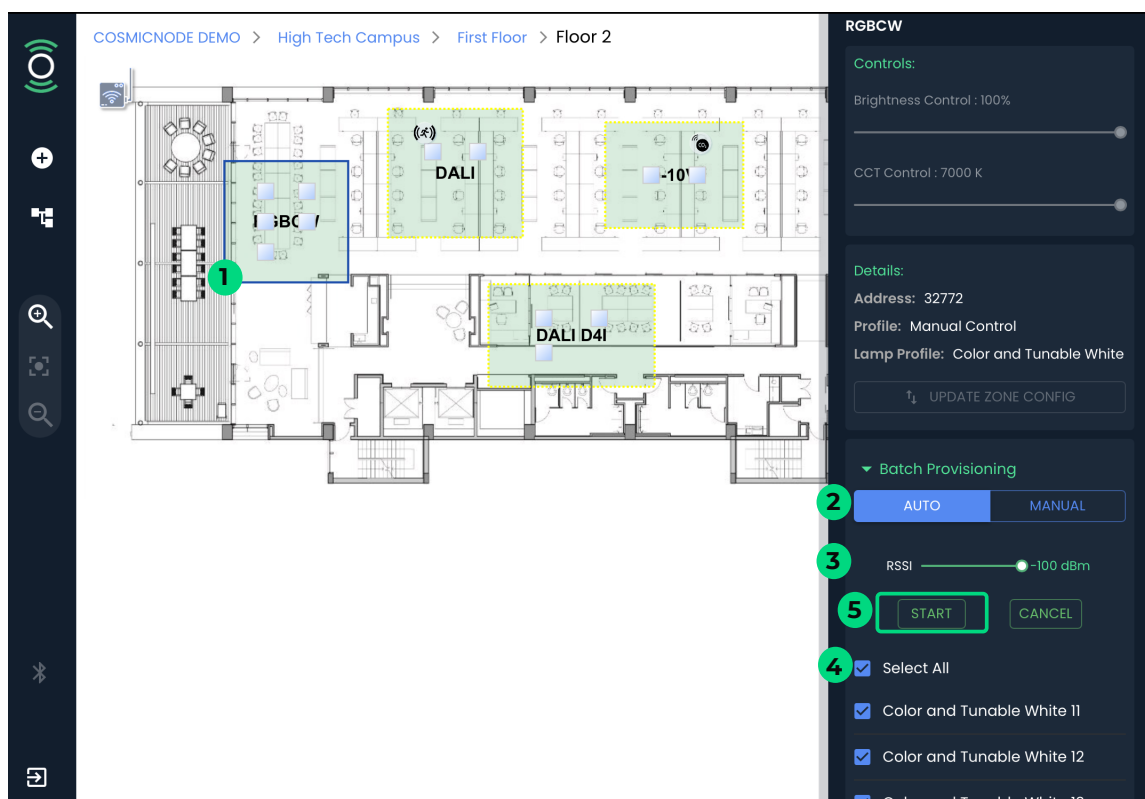
Fig. 4.12 *Batch Provisioning - Auto*
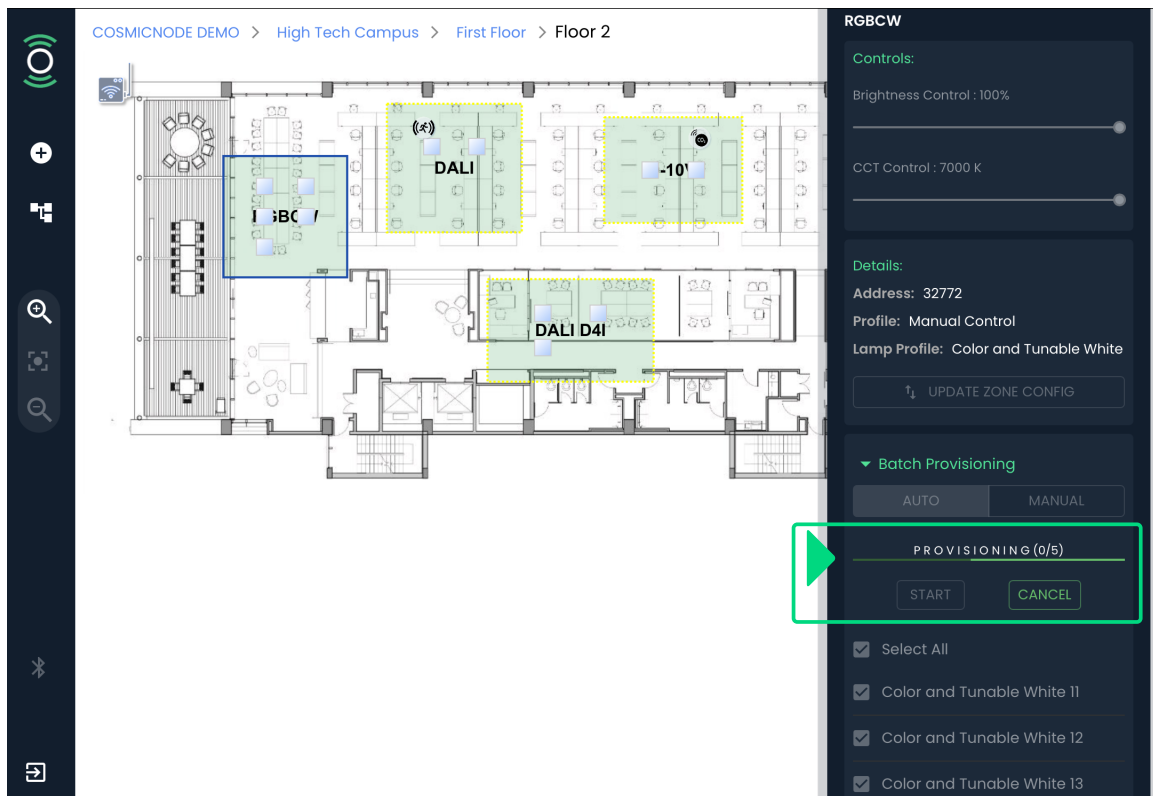
Fig. 4.13 *Batch Provisioning - Auto / provisioning*
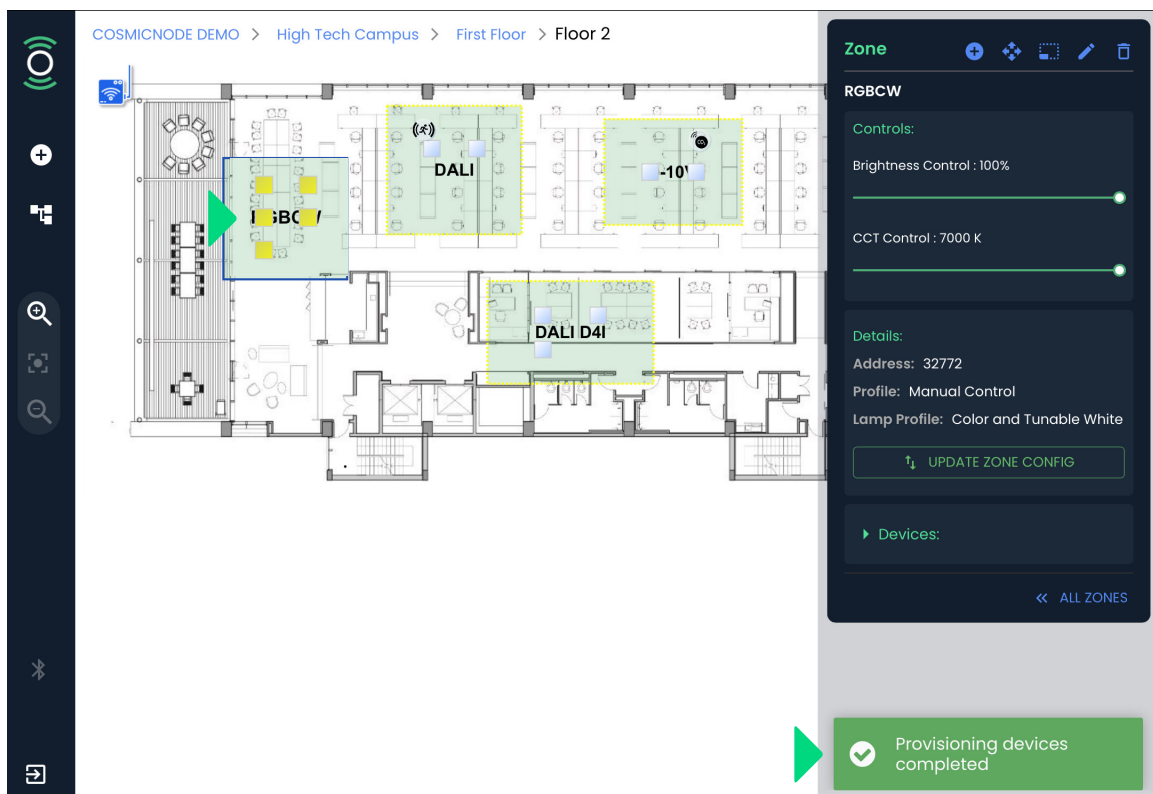
Fig. 4.14 *Batch Provisioning - Auto / complete*

b. Batch Provisioning - Manual

1. In the floor plan, click on one zone
2. On the dark blue tab, under Batch Provisioning, select 'Manual'
3. Set the RSSI
4. Press 'Scan'
5. Wait for the scanning to be completed
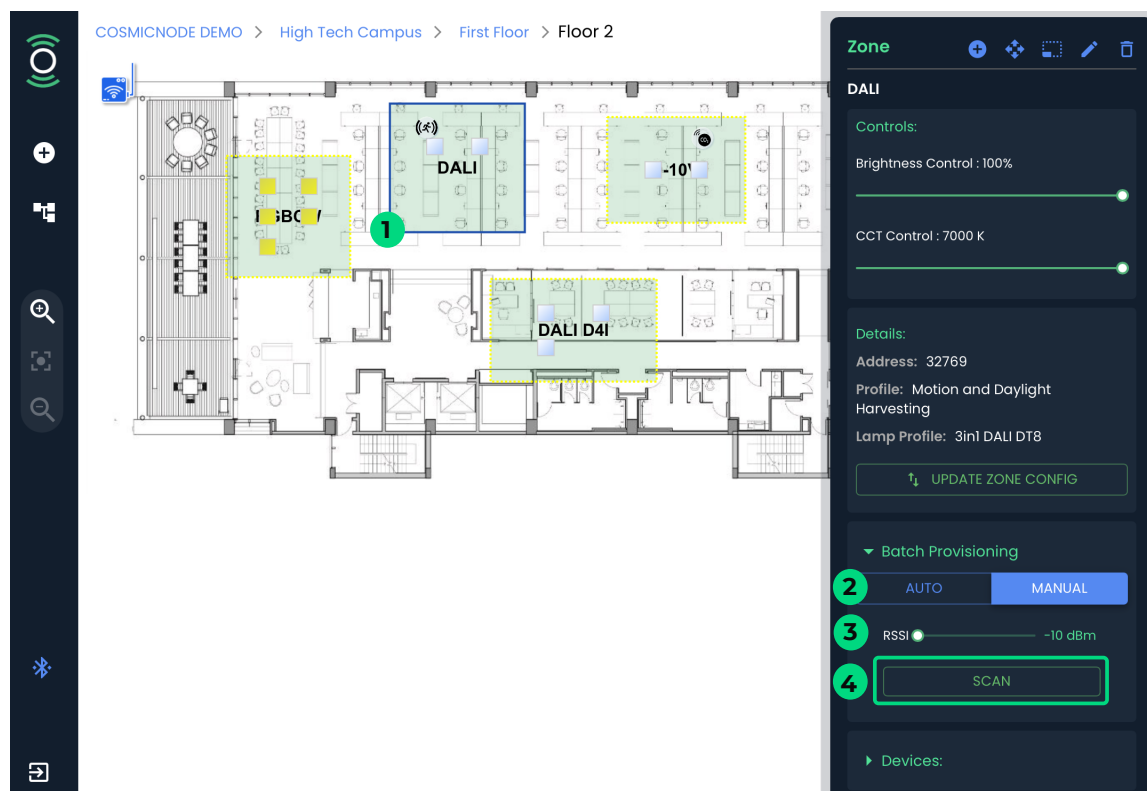
Fig. 4.15 *Batch Provisioning - Manual*

Fig. 4.15 *Batch Provisioning - Manual / scanning*

6. Select the device of the zone to be assigned
7. On the dark blue tab, the selected device will start getting assigned
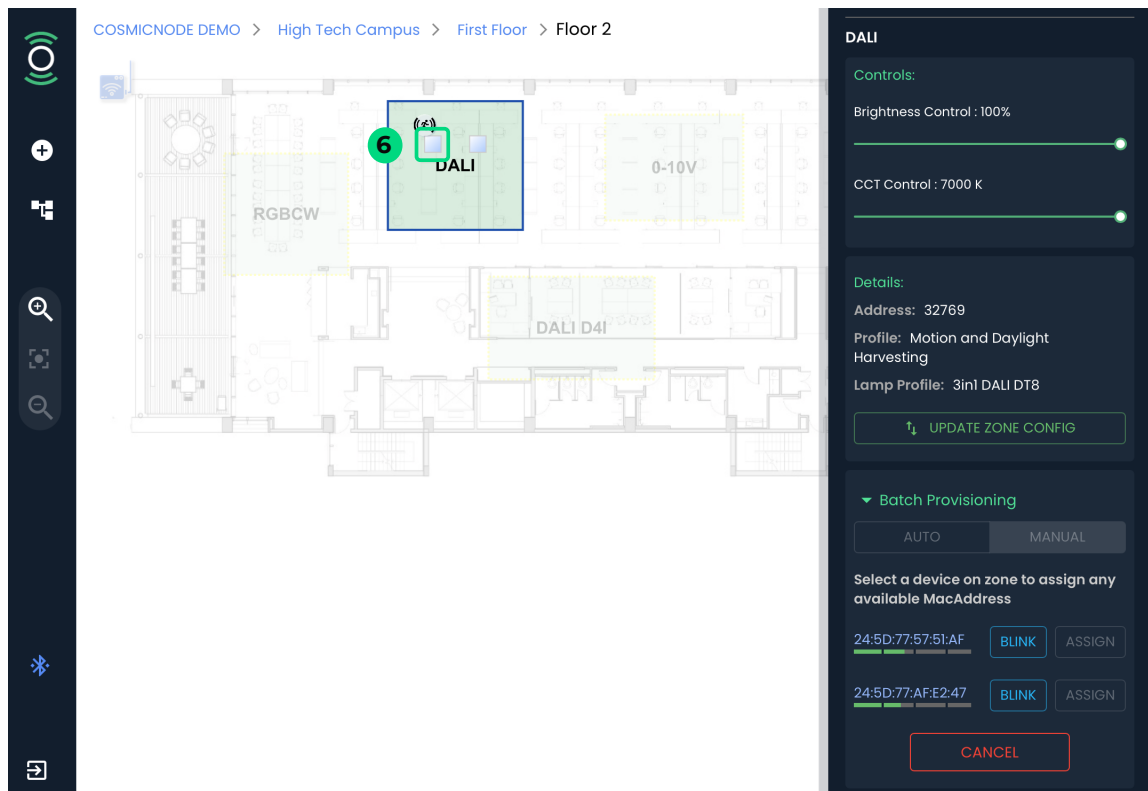
Fig. 4.16 *Batch Provisioning - Manual / select device*
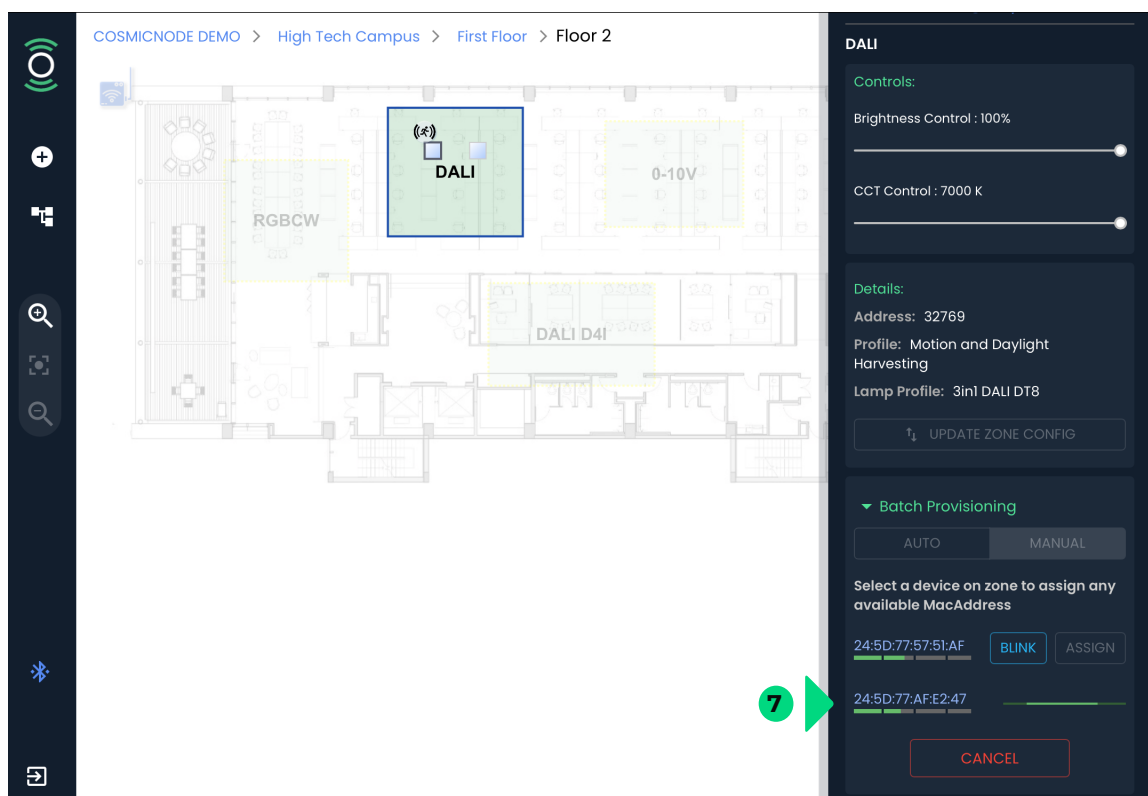
Fig. 4.17 *Batch Provisioning - Manual / assigning*

8. Click" Blink" to check the device which needs to be assigned is blinking
9. The assigned devices will blink & turn yellow on the floor plan
10. Select the next device and wait for it to be assigned
11. Once all the devices are provisioned in a zone, move to the next zone
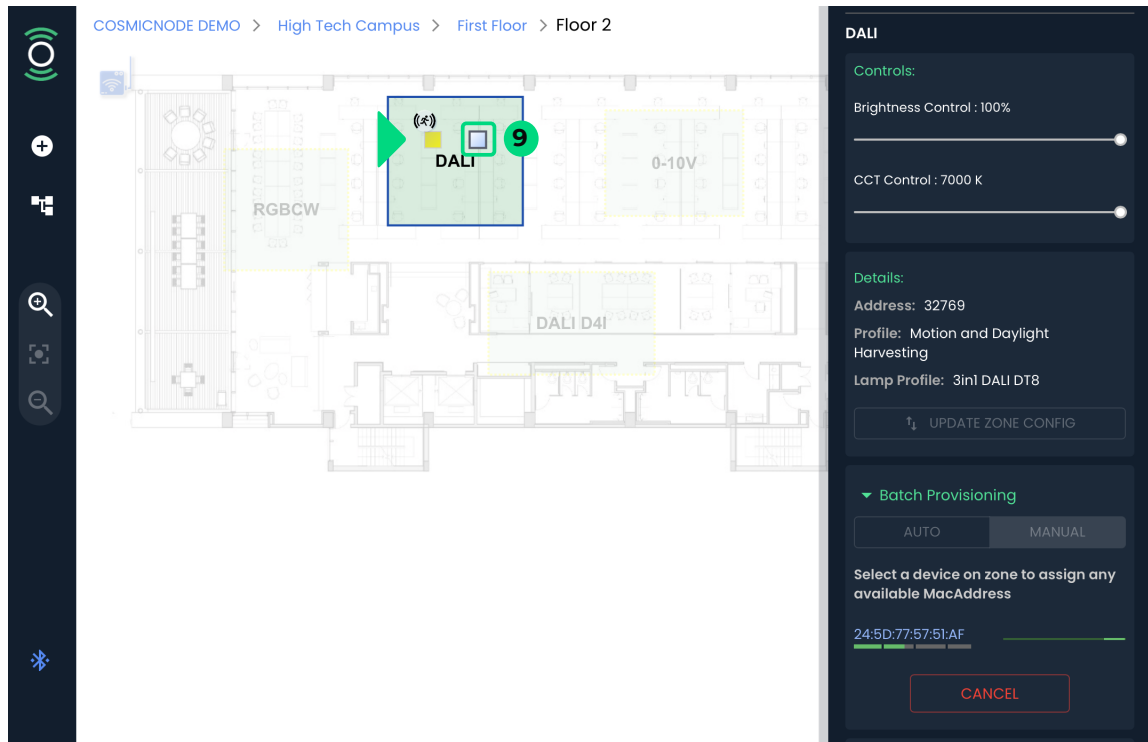
Fig. 4.18 *Batch Provisioning - Manual / device assigned & select next device*

Fig. 4.19 *Batch Provisioning - Manual / completed*

c. Single device provision

1. In the floor plan, click on one light device
2. On the dark blue tab, press ' Provision'
3. After the scanning is completed, press ' Assign'
4. Wait for the assigning to be completed
5. The selected light will blink & turn yellow
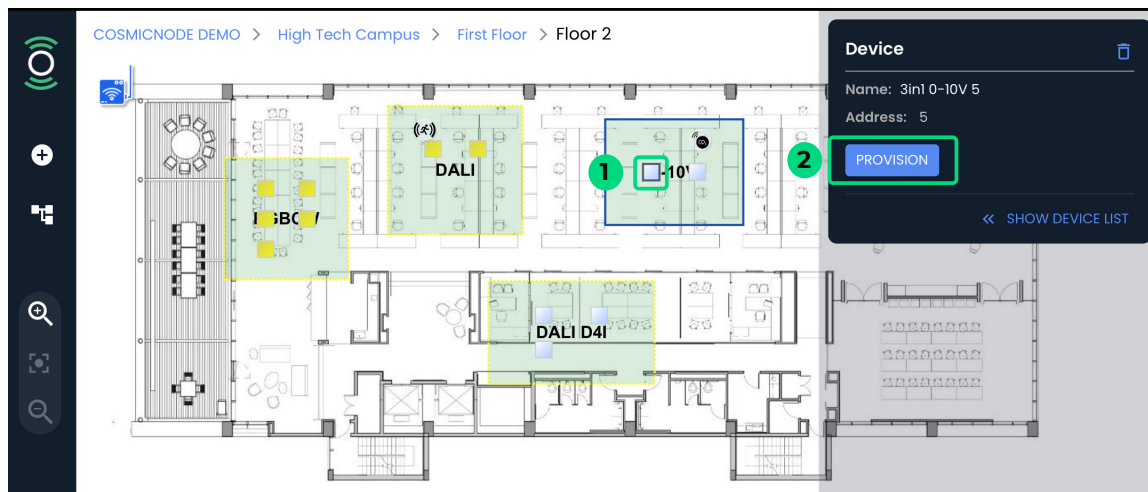
Fig. 4.20 *One light Provisioning - select light & press ' Provision'*
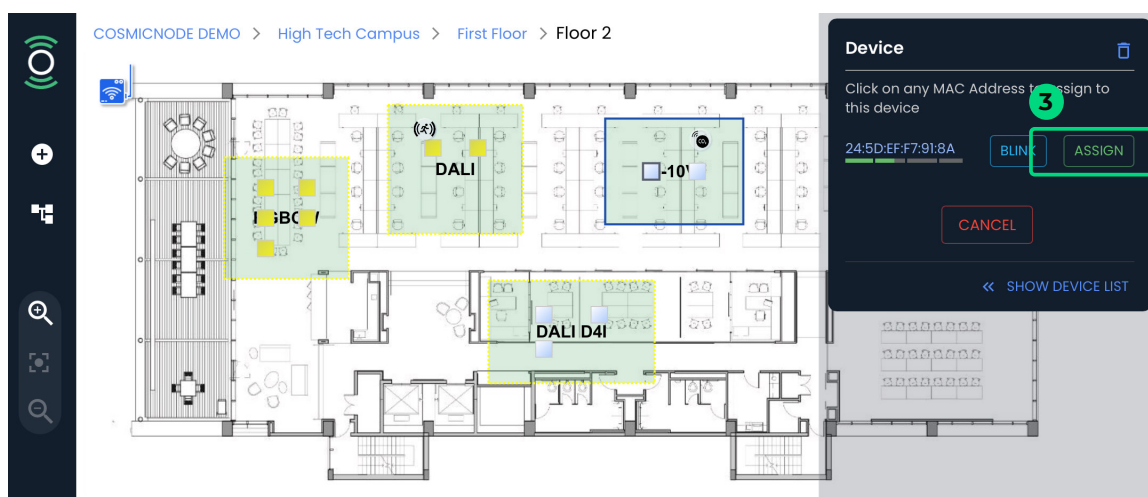
Fig. 4.21 *One light Provisioning - press ' Assign'*
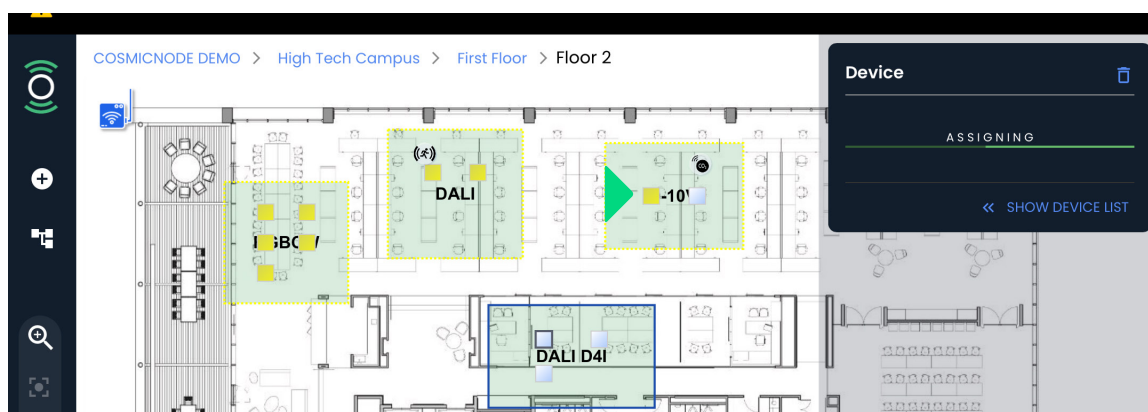
Fig. 4.22 *One light Provisioning - the assigning is completed*

Provisioning Sensors

1. In the floor plan, click on one sensor
2. On the dark blue tab, press 'Provision'
3. After scanning is completed, press 'Assign'
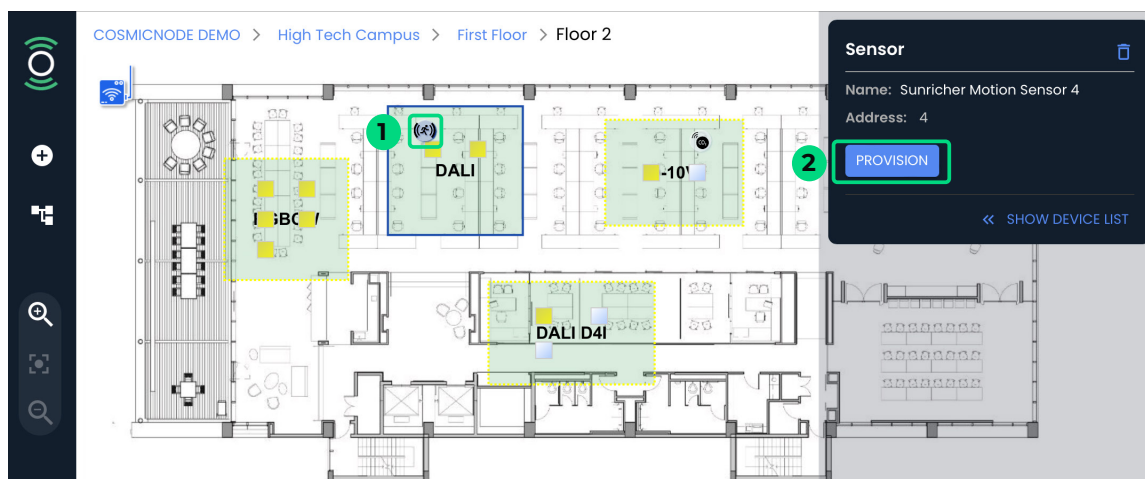
Fig. 4.23 *Sensor Provisioning - select sensor & click ' Provision'*
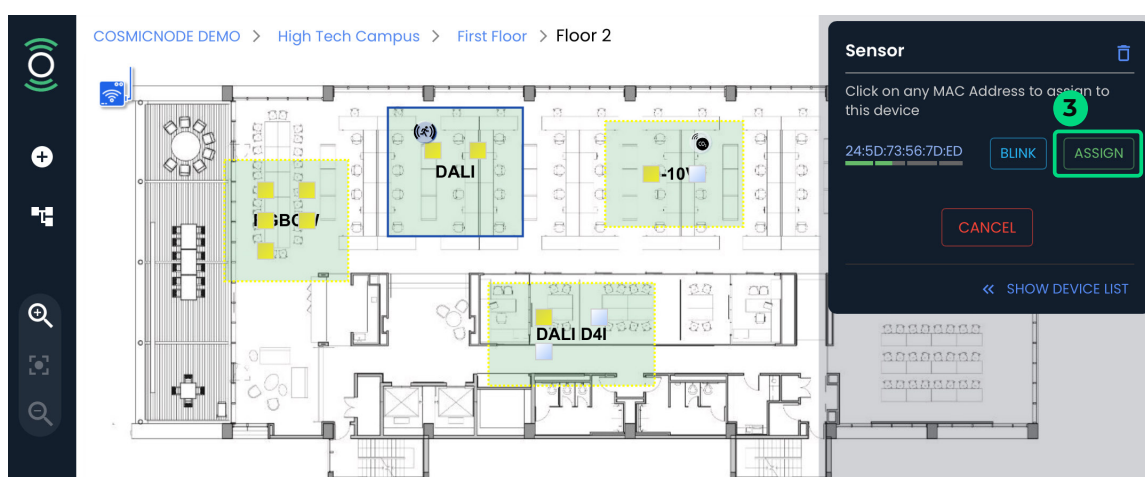
Fig. 4.24 *Sensor Provisioning - click ' Assign'*
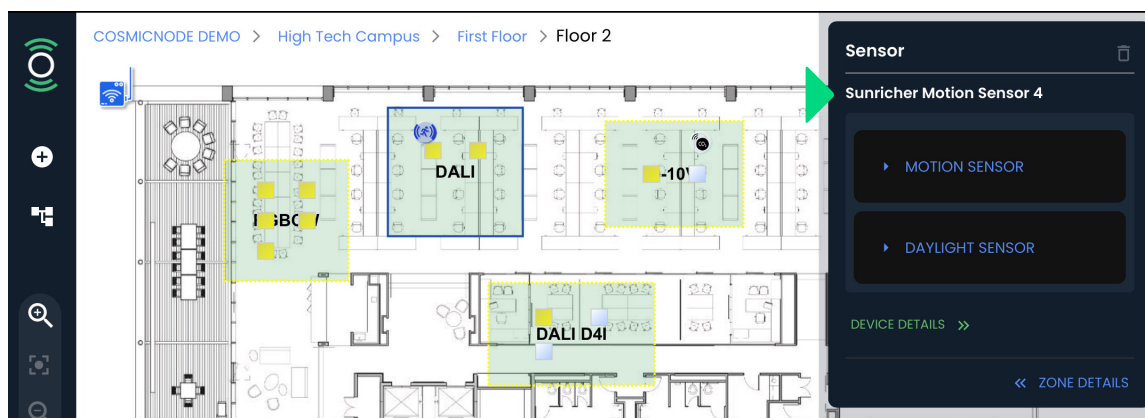
Fig. 4.24 *Sensor Provisioning - view & control sensor attributes*

Unprovisioning

a. Unprovision

1. In the floor plan, click on the device which needs to be unprovisioned
2. On the dark blue tab, press 'Unprovision'
3. On the pop-up dialog, confirm your action by pressing 'Unprovision'
4. Confirm that the device blinked to complete the unprovisioning
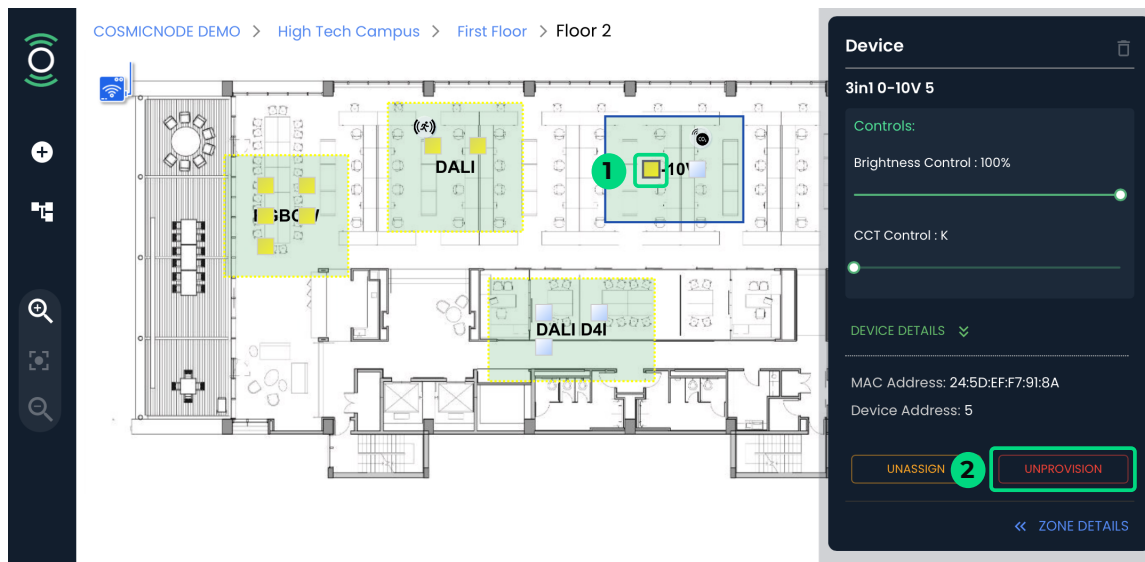
Fig. 4.25 *Select device & press ' Unprovision'*
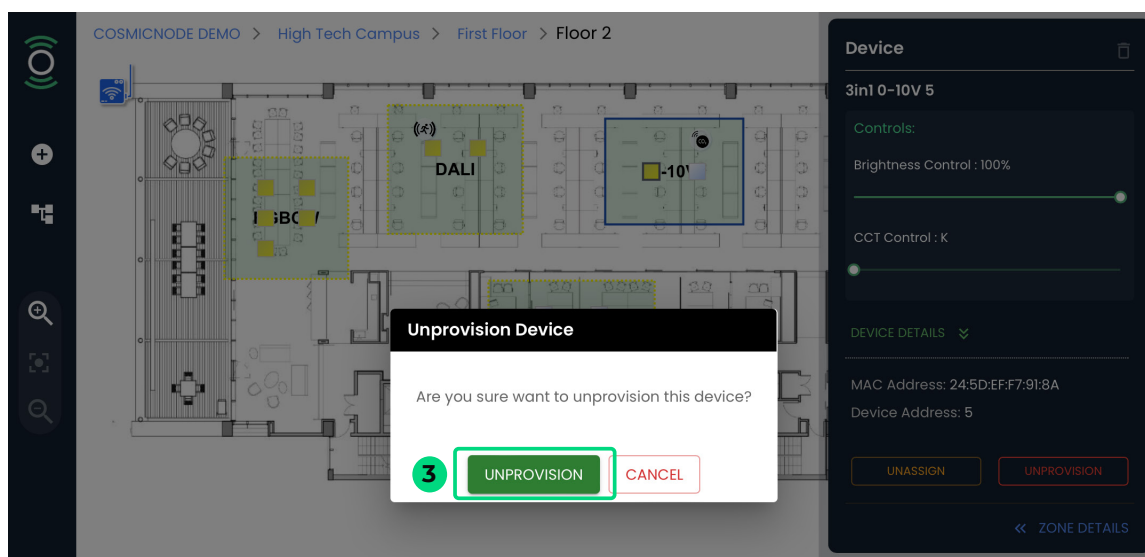
Fig. 4.26 *Confirm your action by pressing 'Unprovision'*
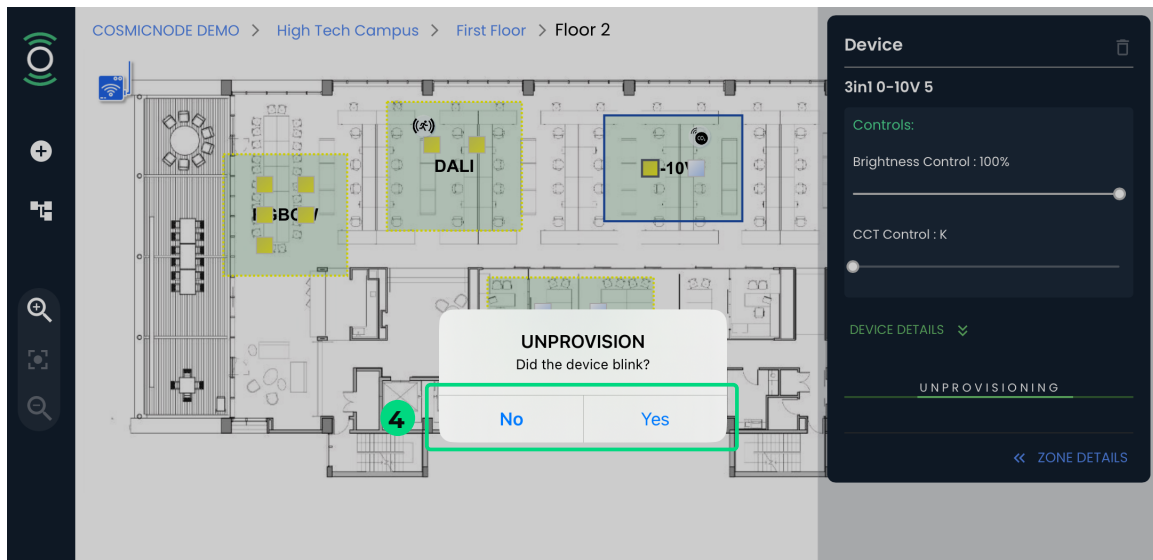
Fig. 4.27 *Confirm if the device blinked*

b. Unassign Gateway

1. In the floor plan, click on one Gateway
2. On the dark blue tab, press 'Unassign'
3. On the pop-up dialog, confirm your action by pressing 'Unassign'
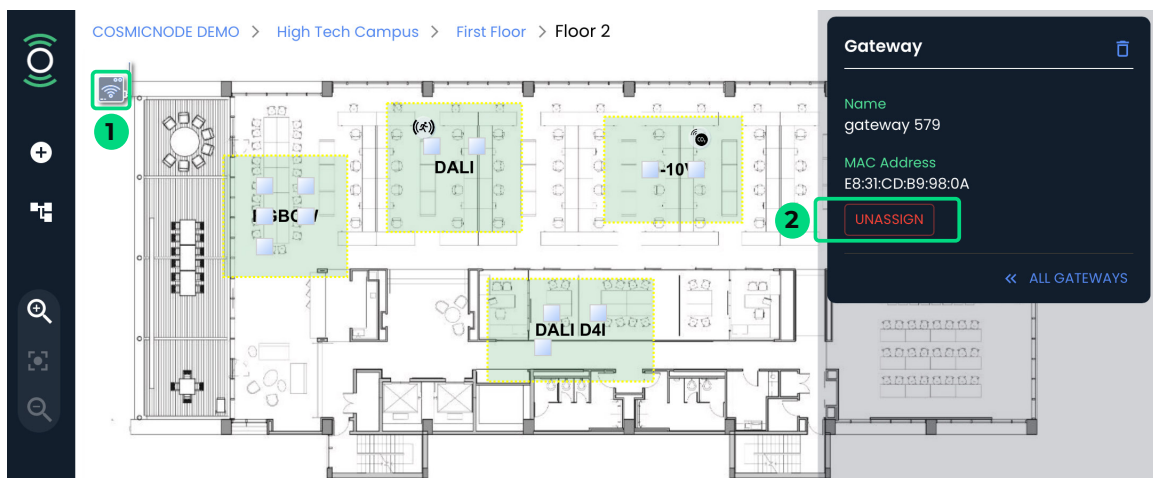
Fig. 4.28 *Select the gateway & press ' Unassign'*
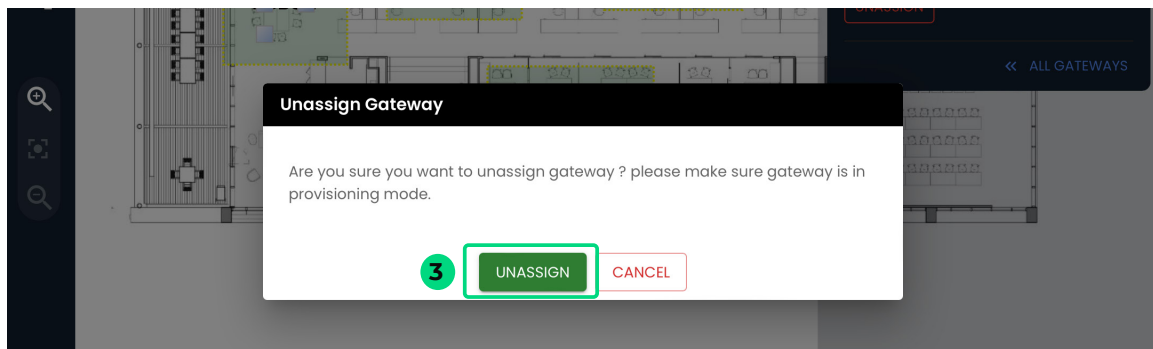
Fig. 4.29 *Confirm your action by pressing ' Unassign'*

Device Control

After provisioning and assigning all the devices in Infinity Controls app (in iPad), everything can be controlled from the Web version of Infinity Platform as well.

Based on the lamp profiles the controls will be displayed at zone/Individual device level for manual control.

Fig. 4.30 *In Web Infinity Platform you can now see the updated state of the devices/gateways*

Please note:

The lights and/or sensors you add on the web platform are not functional, until you provision them on the Infinity Controls App (see p.27). **You can provision and remove devices <u>only</u> from the Infinity Controls App.** After the provision, everything can be controlled both on the Web Infinity Platform and the Infinity Controls App.

a. Update zone

1. In the floor plan, click on the zone that you want to update
2. On the dark blue tab, press 'edit'
3. On the pop-up dialog, change the properties you want
4. Click 'Save'
5. Click 'Save' to confirm your changes
6. When the update is succesfully completed, all the lights of the zone will blink
7. All the new properties will be applied to all the devices of the zone

Fig. 4.31 *Select the zone you want to update and click 'edit'*
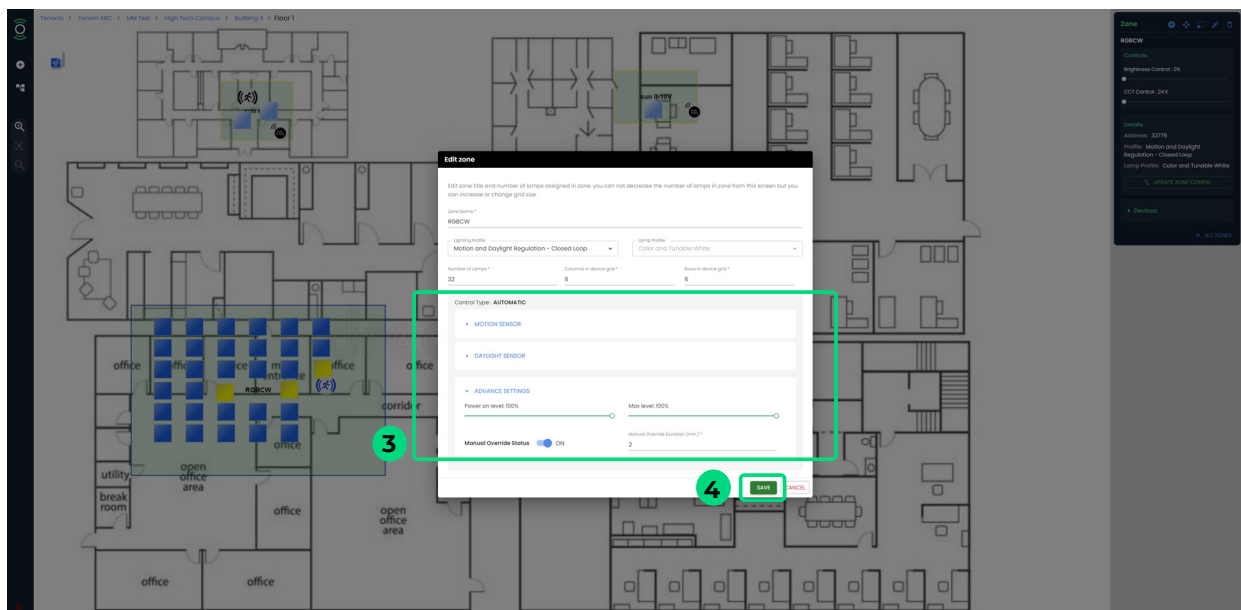
Fig. 4.32 *Change the properties you want and click 'save'*
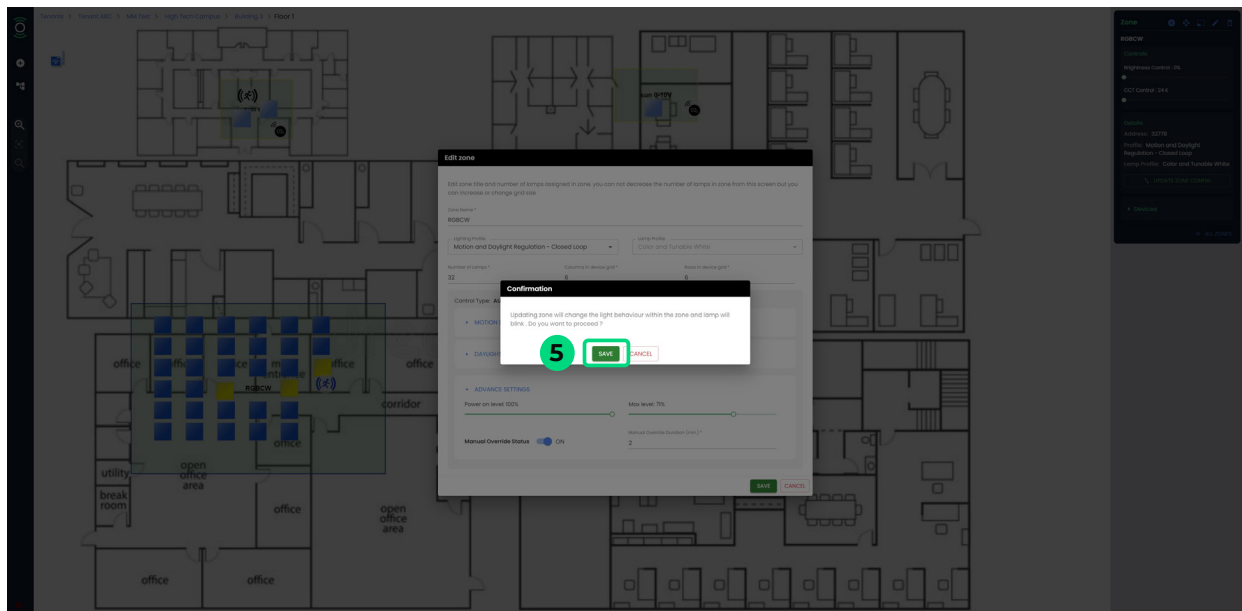
Fig. 4.33 *Click 'save' to confirm the updates*

Fig. 4.34 *All the devices of the zone will blink and be updated*

Please note:

You can also update a zone, without changing any properties.

To do that, select the zone and click 'Update zone config'.

When the update is succesfully completed, all the lights of the zone will blink.
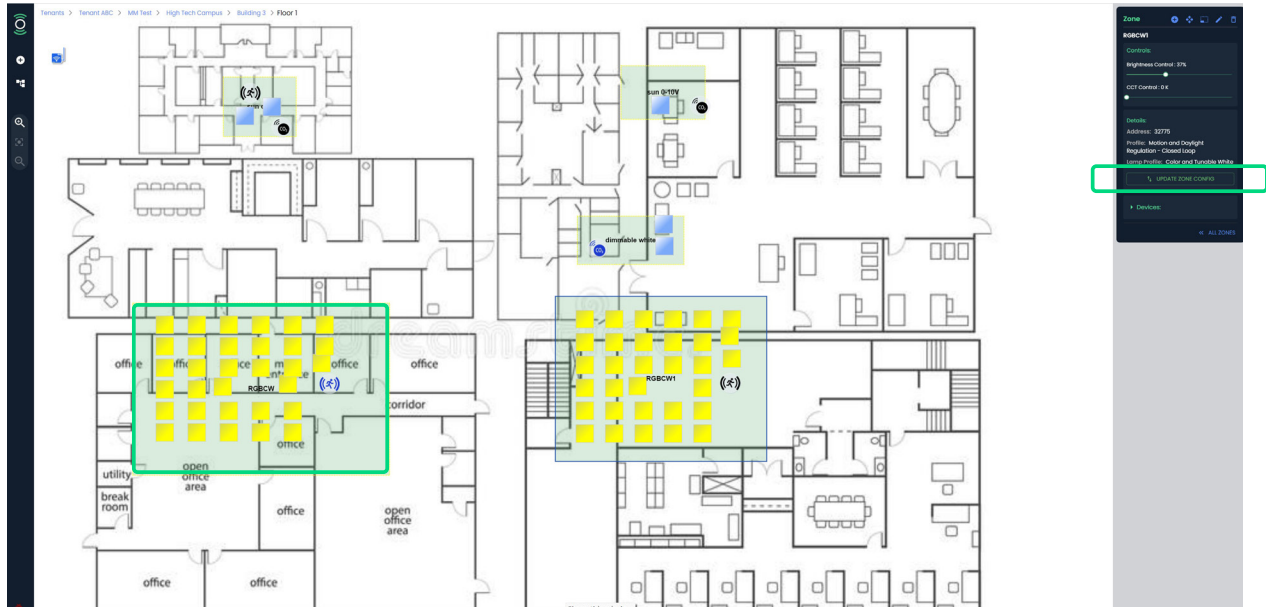
Fig. 4.35 Update the zone without changing any properties, by clicking on 'Update zone config'
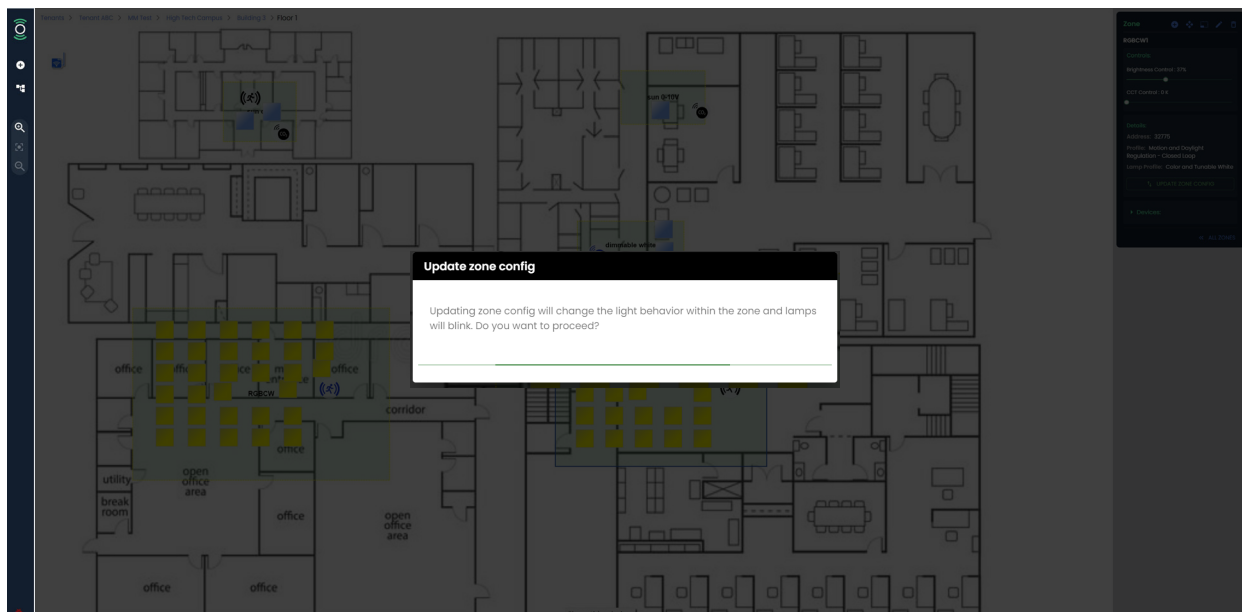
Fig. 4.36 Wait for the update to be completed. When completed successfully, all the lights of the zone will blink

b. Unassign

1. In the floor plan, click on the device which needs to be unassigned
2. On the dark blue tab, press 'Unassign'
3. On the pop-up dialog, confirm your action by pressing 'Unassign'
4. When the unassignment is succesfull, the light will blink, and the device will get a '**?**' symbol on the floorplan, meaning that this device doesn't belong to any zone

Fig. 4.37 *Select device & press ' Unassign'*

Fig. 4.38 *Confirm your action by pressing 'Unassign'*
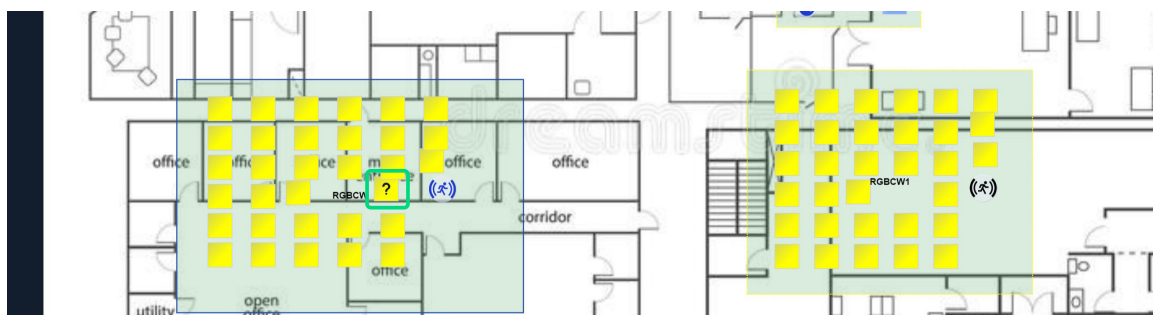
Fig. 4.39 *The unassigned device has a '?' symbol on it, meaning that this device doesn't belong to any zone*

Please note:

On your Web browser app, you can see all the unassigned devices on the floor by clicking on 'Explore' ⬛ > 'Unassigned Devices'. Click on 'Blink' to see which is each device.

c. Assign light to other zone

1. In the floor plan, click on the device(s) with the '**?**' symbol on it/them
2. Drag the device to another zone
3. Automatically, a pop up window will appear, asking if you want to assign the device to that zone, confirm your action by clicking 'Assign'
4. When the new assignment is succesfull, the light will blink, and the device will lose the '**?**' symbol on the floorplan. Now all the properties of the zone are applied to the light

Fig. 4.40 Select device the unassign device and drag it to another zone
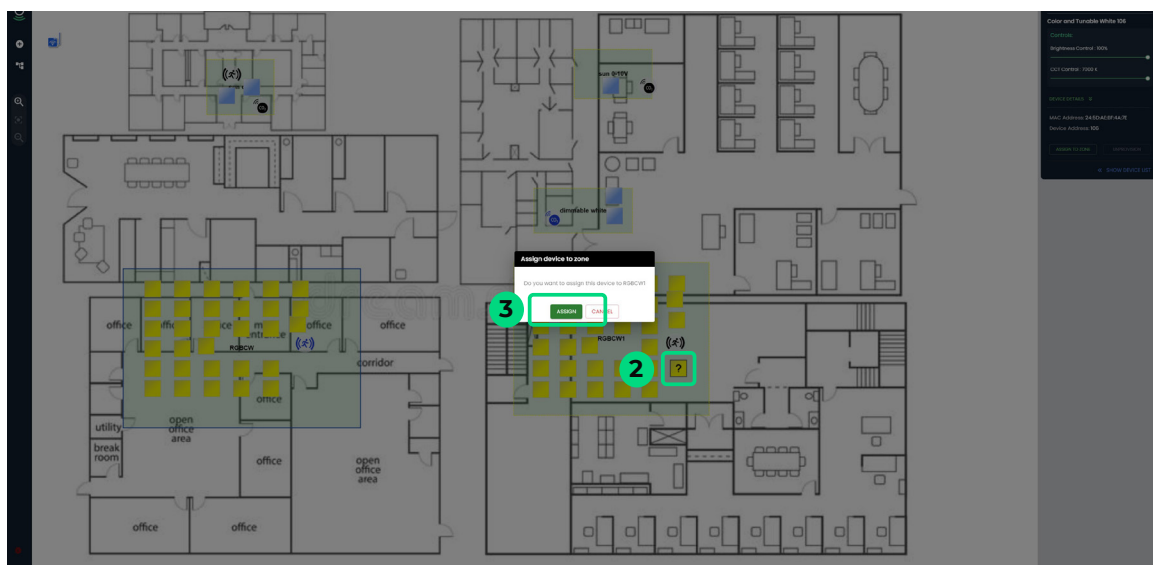
Fig. 4.41 Release the device on the new zone and confirm the new assignment

d. Unknown devices

only available in iPad Infinity Controls app.

1. Tap on the 'Explore' (⊞) icon
2. Under 'Unknown Devices' tab on the right corner, tap on 'Scan'
3. A list of all the unknown devices in the network, which are not visible on the floorplan, will show up
4. Tap on 'Blink' to see which is each device
5. Tap on reset to remove the device from the network
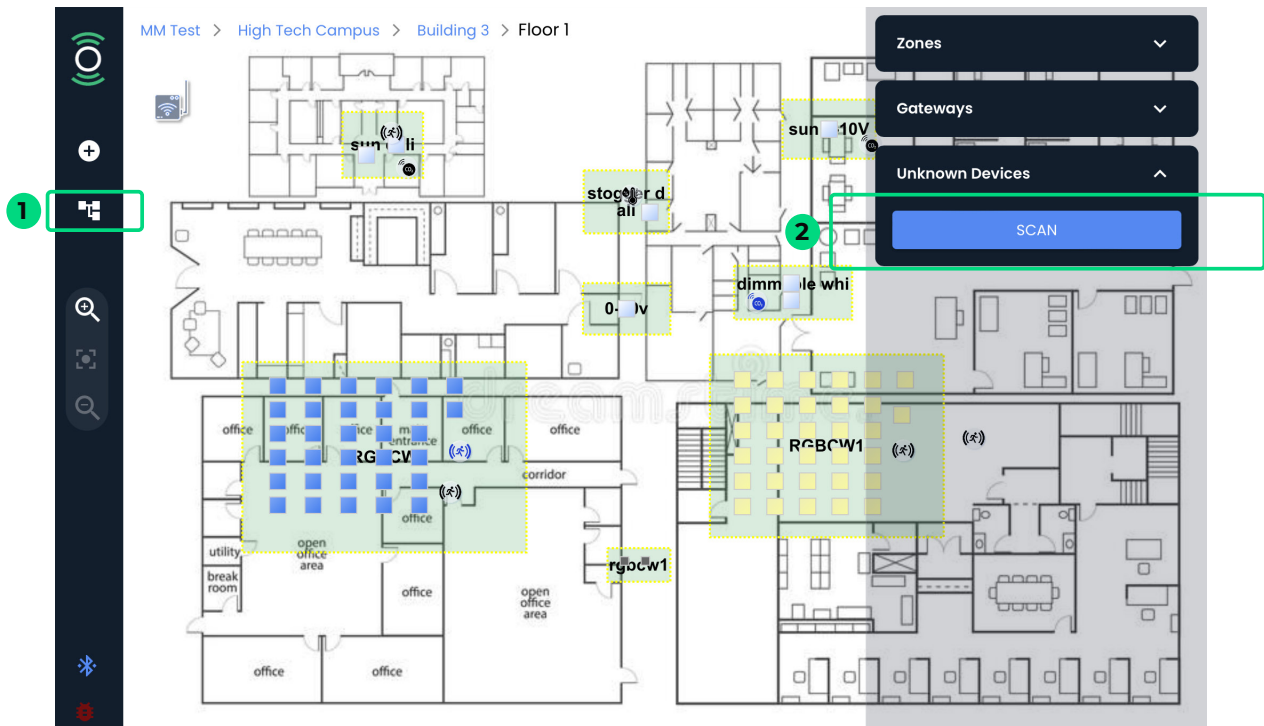
Fig. 4.42 *Tap on the 'Explore' icon and select 'Scan'*

Fig. 4.43 *A list with all the unknown devices in the network will show up, tap 'Blink' to see which is the device, or 'Reset' to remove it from the network*

Roles permissions

Role		Resources	Read	Create	Update	Delete	Control
Platform Owner		Tenant	🟢	🟢	🟢	🟢	🟢
		Customer	🟢	🟢	🟢	🟢	🟢
	Levels	Site	🟢	🟢	🟢	🟢	🟢
		Building	🟢	🟢	🟢	🟢	🟢
		Floors	🟢	🟢	🟢	🟢	🟢
		Rooms	🟢	🟢	🟢	🟢	🟢
		Zones	🟢	🟢	🟢	🟢	🟢
		Devices	🟢	🟢	🟢	🟢	🟢
		Dashboard	🟢	🟢	🟢	🟢	🟢
		Alerts	🟢	🟢	🟢	🟢	🟢
		Reports	🟢	🟢	🟢	🟢	🟢
		Calendar/Routine	🟢	🟢	🟢	🟢	🟢
		Control Loops	🟢	🟢	🟢	🟢	🟢
		Solution Templates	🟢	🟢	🟢	🟢	🟢
		Device Profile	🟢	🟢	🟢	🟢	🟢
		Asset Profile	🟢	🟢	🟢	🟢	🟢
		Zone Profiles	🟢	🟢	🟢	🟢	🟢
		Settings	🟢	🟢	🟢	🟢	🟢
Tenant Admin		Tenant	⚫	⚫	⚫	⚫	⚫
		Customer	🟢	🟢	🟢	🟢	🟢
	Levels	Site	🟢	🟢	🟢	🟢	🟢
		Building	🟢	🟢	🟢	🟢	🟢
		Floors	🟢	🟢	🟢	🟢	🟢
		Rooms	🟢	🟢	🟢	🟢	🟢
		Zones	🟢	🟢	🟢	🟢	🟢
		Devices	🟢	🟢	🟢	🟢	🟢
		Dashboard	🟢	🟢	🟢	🟢	🟢
		Alerts	🟢	🟢	🟢	🟢	🟢
		Reports	🟢	🟢	🟢	🟢	🟢
		Calendar/Routine	🟢	🟢	🟢	🟢	🟢
		Control Loops	🟢	🟢	🟢	🟢	🟢
		Solution Templates	🟢	⚫	⚫	⚫	⚫
		Device Profile	🟢	⚫	⚫	⚫	⚫
		Asset Profile	🟢	🟢	🟢	🟢	🟢
		Zone Profiles	🟢	⚫	⚫	⚫	⚫
		Settings	🟢	⚫	⚫	⚫	⚫

🟢 permitted

⚫ not permitted

Role		Resources	Read	Create	Update	Delete	Control
Business Owner		Tenant	⚫	⚫	⚫	⚫	⚫
		Customer	⚫	⚫	⚫	⚫	⚫
	Levels	Site	🟢	🟢	🟢	🟢	🟢
		Building	🟢	🟢	🟢	🟢	🟢
		Floors	🟢	🟢	🟢	🟢	🟢
		Rooms	🟢	🟢	🟢	🟢	🟢
		Zones	🟢	🟢	🟢	🟢	🟢
		Devices	🟢	🟢	🟢	🟢	🟢
		Dashboard	🟢	🟢	🟢	🟢	🟢
		Alerts	🟢	🟢	🟢	🟢	🟢
		Reports	🟢	🟢	🟢	🟢	🟢
		Calendar/Routine	🟢	🟢	🟢	🟢	🟢
		Control Loops	🟢	🟢	🟢	🟢	🟢
		Solution Templates	⚫	⚫	⚫	⚫	⚫
		Device Profile	⚫	⚫	⚫	⚫	⚫
		Asset Profile	🟢	🟢	🟢	🟢	🟢
		Zone Profiles	🟢	⚫	⚫	⚫	⚫
		Settings	🟢	⚫	⚫	⚫	⚫
Site Planner		Tenant	⚫	⚫	⚫	⚫	⚫
		Customer	⚫	⚫	⚫	⚫	⚫
	Levels	Site	🟢	⚫	⚫	⚫	⚫
		Building	🟢	🟢	🟢	🟢	🟢
		Floors	🟢	🟢	🟢	🟢	🟢
		Rooms	🟢	🟢	🟢	🟢	🟢
		Zones	🟢	🟢	🟢	🟢	🟢
		Devices	🟢	🟢	🟢	🟢	🟢
		Dashboard	⚫	⚫	⚫	⚫	⚫
		Alerts	🟢	🟢	🟢	🟢	🟢
		Reports	⚫	⚫	⚫	⚫	⚫
		Calendar/Routine	⚫	⚫	⚫	⚫	⚫
		Control Loops	⚫	⚫	⚫	⚫	⚫
		Solution Templates	⚫	⚫	⚫	⚫	⚫
		Device Profile	⚫	⚫	⚫	⚫	⚫
		Asset Profile	🟢	⚫	⚫	⚫	⚫
		Zone Profiles	🟢	⚫	⚫	⚫	⚫
		Settings	🟢	⚫	⚫	⚫	⚫

🟢 permitted

⚫ not permitted

Role		Resources	Read	Create	Update	Delete	Control
Site Engineer		Tenant	✗	✗	✗	✗	✗
		Customer	✗	✗	✗	✗	✗
	Levels	Site	✓	✗	✗	✗	✗
		Building	✓	✗	✓	✗	✓
		Floors	✓	✗	✓	✗	✓
		Rooms	✓	✗	✓	✗	✓
		Zones	✓	✓	✓	✓	✓
		Devices	✓	✓	✓	✓	✓
		Dashboard	✓	✗	✗	✗	✓
		Alerts	✓	✓	✓	✓	✓
		Reports	✓	✗	✗	✗	✓
		Calendar/Routine	✓	✓	✓	✗	✓
		Control Loops	✓	✓	✓	✗	✓
		Solution Templates	✗	✗	✗	✗	✗
		Device Profile	✓	✗	✗	✗	✗
		Asset Profile	✓	✗	✗	✗	✗
		Zone Profiles	✓	✗	✗	✗	✗
		Settings	✓	✗	✗	✗	✗
Facility Manager		Tenant	✗	✗	✗	✗	✗
		Customer	✗	✗	✗	✗	✗
	Levels	Site	✓	✗	✗	✗	✗
		Building	✓	✗	✓	✗	✓
		Floors	✓	✗	✓	✗	✓
		Rooms	✓	✗	✓	✗	✓
		Zones	✓	✗	✓	✗	✓
		Devices	✓	✗	✓	✗	✓
		Dashboard	✓	✓	✓	✗	✓
		Alerts	✓	✓	✓	✗	✓
		Reports	✓	✓	✓	✗	✓
		Calendar/Routine	✓	✓	✓	✗	✓
		Control Loops	✓	✓	✓	✗	✓
		Solution Templates	✗	✗	✗	✗	✗
		Device Profile	✗	✗	✗	✗	✗
		Asset Profile	✗	✗	✗	✗	✗
		Zone Profiles	✗	✗	✗	✗	✗
		Settings	✗	✗	✗	✗	✗

✓ permitted
✗ not permitted

COSMICNODE