

User Guide

Omada Design Hub

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About This Guide

This User Guide provides information for configuring Omada Design Hub. Read this guide carefully before operation.

Intended Readers

This Guide is intended for network managers familiar with IT concepts and network terminologies.

Conventions

When using this guide, notice that all images, steps, and descriptions in this guide are only examples and may not reflect your actual experience.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information and recommendations in this document do not constitute the warranty of any kind, express or implied. Users must take full responsibility for their application of any products.

In this Guide, the following conventions are used:

Note contains suggestions or references that help you make better use of the platform.

Bold font indicates a button, toolbar icon, menu or menu item.

Menu Name > Tab page indicates the menu structure. **Account Settings > My Profile** means the My Profile page under the Account Settings menu.

More Resources

Main Site	https://www.omadanetworks.com/business-networking/software-tools/omada-design-hub/
Documents	https://support.omadanetworks.com/document/
Technical Support	https://support.omadanetworks.com/contact-support/

Warranty

For details on the warranty period, policy, and procedures, visit

<https://support.omadanetworks.com/warranty-services/>.

Support

For technical support, user guides and other information, please visit

<https://support.omadanetworks.com/>.

Getting Started with Omada Design Hub

Overview

Omada Design Hub is a free and powerful tool for SMBs, streamlining network and surveillance planning with visualized solutions and one-click documentation to enhance efficiency and accuracy in project planning.

Create Your Account

Launch a web browser and enter <https://design.tplinkcloud.com/> in the address bar. Enter your TP-Link ID and password to log in. If you do not have a TP-Link ID, create a TP-Link ID first.



Sign In

Don't have an account? [Sign Up](#)

TP-Link ID (Partner ID)

Password

[Forgot Password?](#)

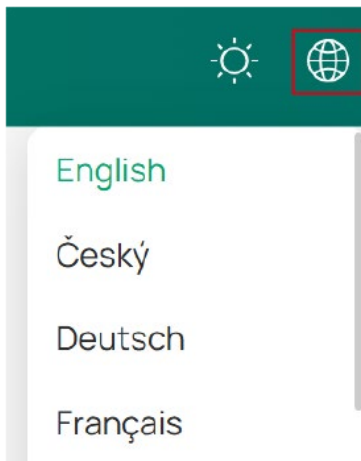
[Sign In](#)

General Settings

After logging in to the Omada Design Hub, you can set up the platform based on your preferences.

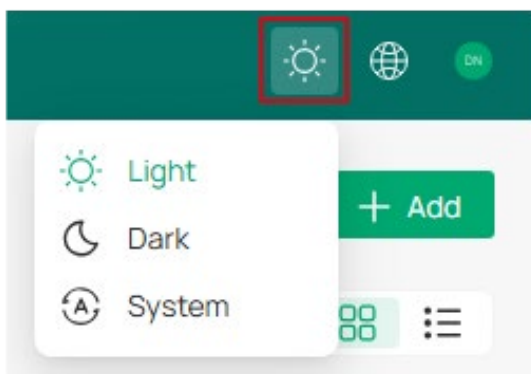
Select Your Language

Click the Language icon in the upper right of the page and select your language preference.



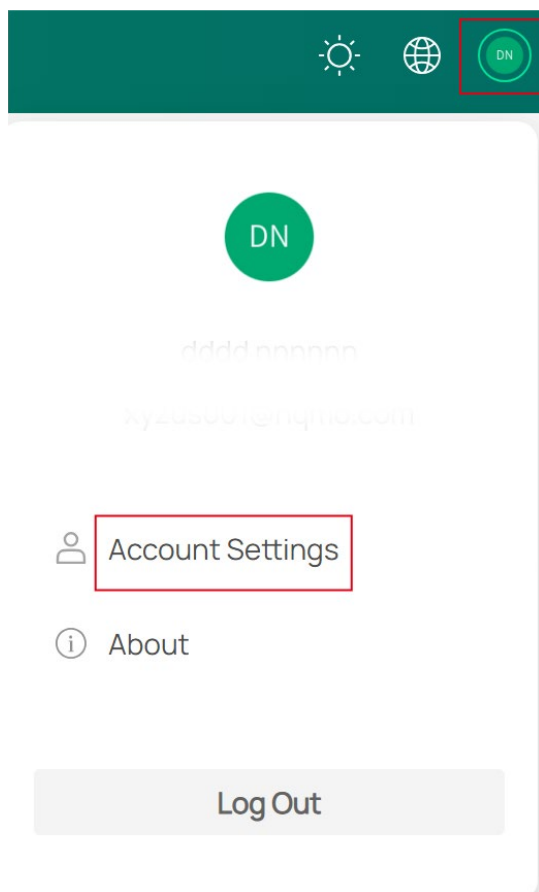
Select Your Display Mode

Click the Display icon in the upper right of the page and select **Light** or **Dark** mode. You can also choose **System** and the display mode will be automatically adjusted based on the system settings.



Account Settings

Click the Account icon in the upper right of the page and click **Account Settings** to configure your account.



Set Up Your Profile

Go to **Account Settings > My Profile**, and you can set or change your name, phone number, and language preference.

Profile

Profile

 Name: dddd nnnnnn
Email: xyz000@omada.com

First Name

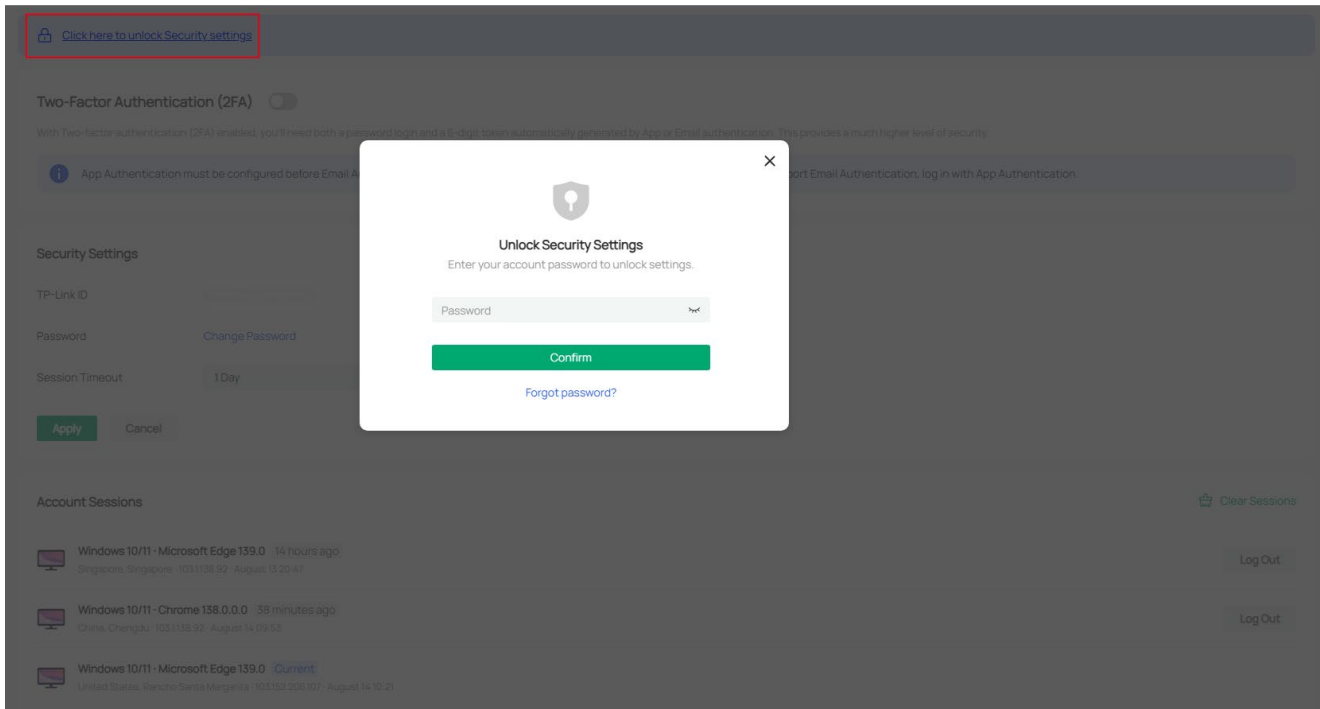
Last Name

Phone (Optional)

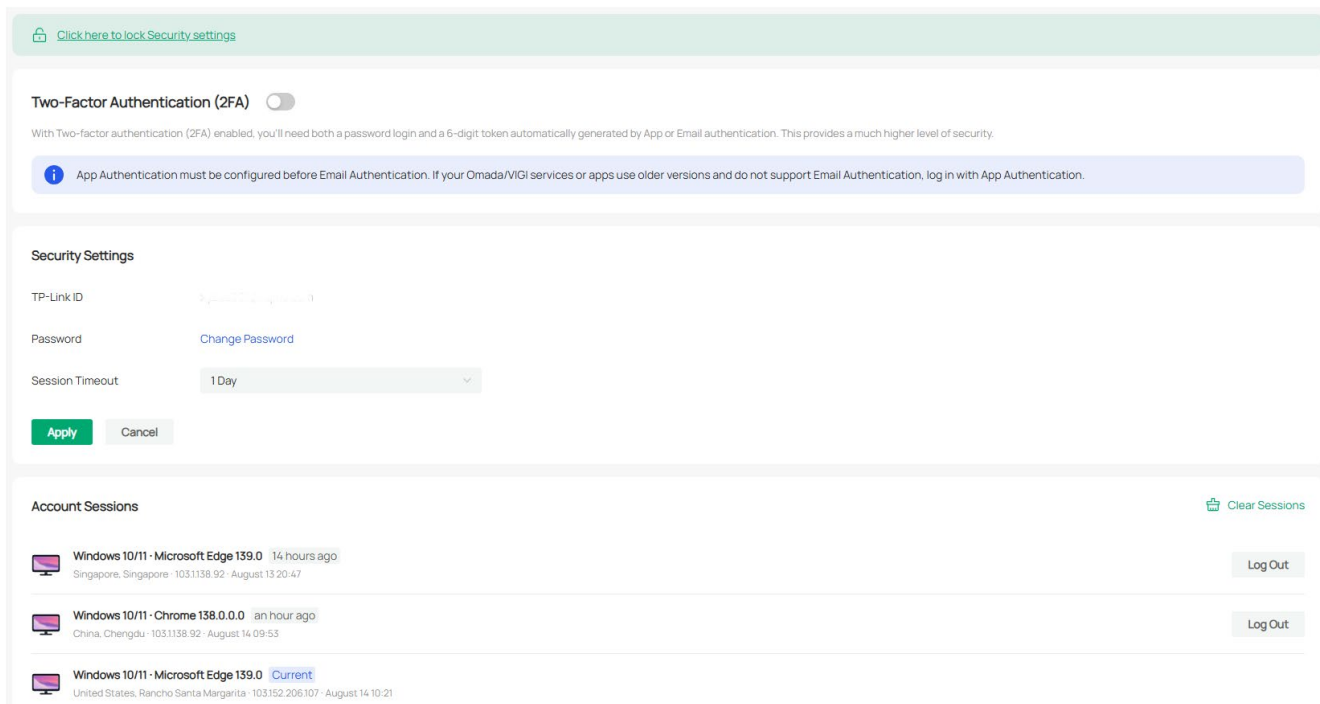
Language

Configure Security Settings

Go to **Account Settings > Security**, and unlock the Security settings first by clicking the note on the top and entering your password.



After unlocking the Security settings, you can enable two-factor authentication (2FA) for higher security, change your password, set the session timeout, and manage the account sessions. After the security configuration, click the note on the top again to lock the Security settings.



Configure Company Settings

Go to **Account Settings > Company**, and you can add a new company, join a company, edit your company's information, add and edit the company's members.

The screenshot displays the 'Company' settings interface. At the top, there is a horizontal list of company tabs: 'Company A', 'company1', 'Company 2e', 'Owner Company 3w', 'Company B', 'company1', and 'Company C', followed by a plus icon for adding more. The 'company1' tab is active. Below the tabs, the company details for 'company1' are shown, including an 'Installer' button, an 'Edit' button, and fields for ID, Email, Website, and location. The 'Company Members' section features a search bar and an '+ Add' button. A table lists the company members, with one member, 'You', who is the CEO and Owner. The table has columns for User Name, Position, Status, TP-Link ID (Email), Phone, Role, Joined, and ACTION. The page also includes a pagination bar at the bottom right showing '10 / page'.

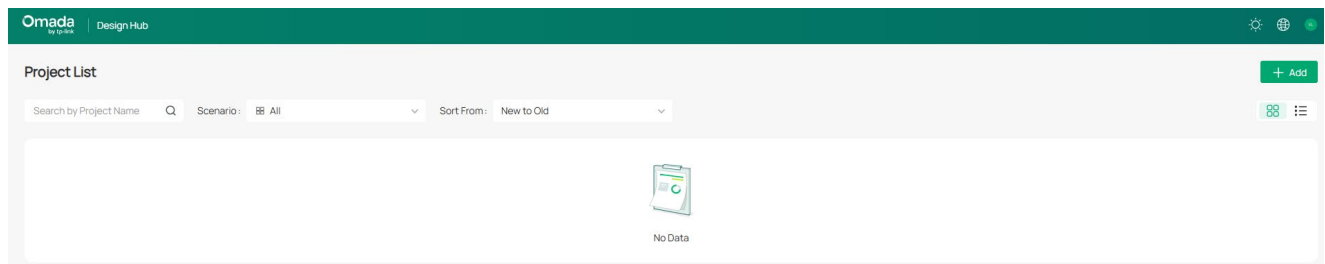
User Name	Position	Status	TP-Link ID (Email)	Phone	Role	Joined	ACTION
You	CEO	Active		1	Owner	-	

Network Planning and Design on Omada Design Hub

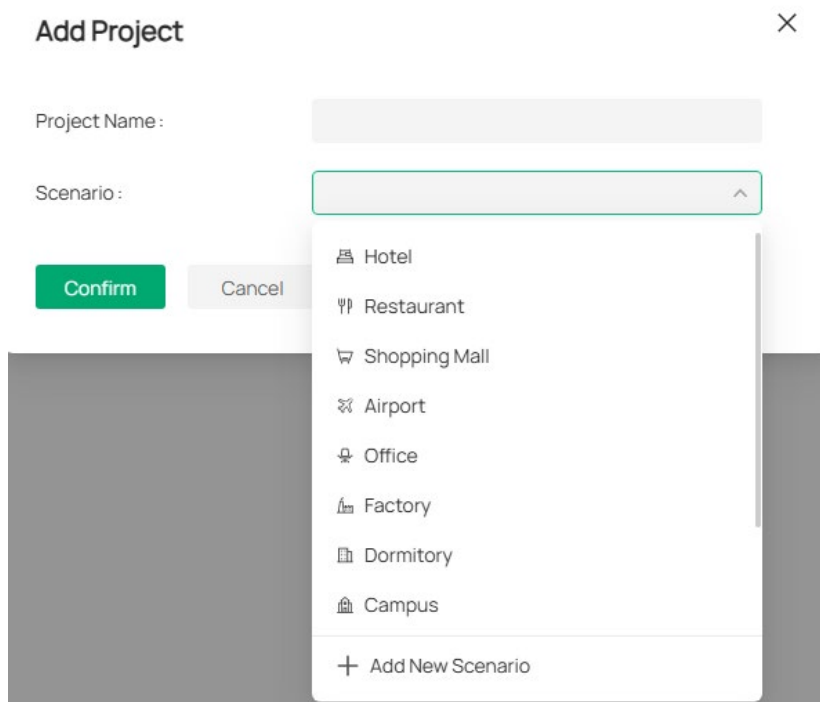
Create Projects

To create a new project, follow these steps:

- 1) Log in to the Omada Design Hub and click **+ Add** in the **Project List** page.



- 2) Specify the project name and scenario. If the predefined scenarios do not fit your need, click **+ Add New Scenario** to customize your own scenario. Click **Confirm**.



Add Scenario



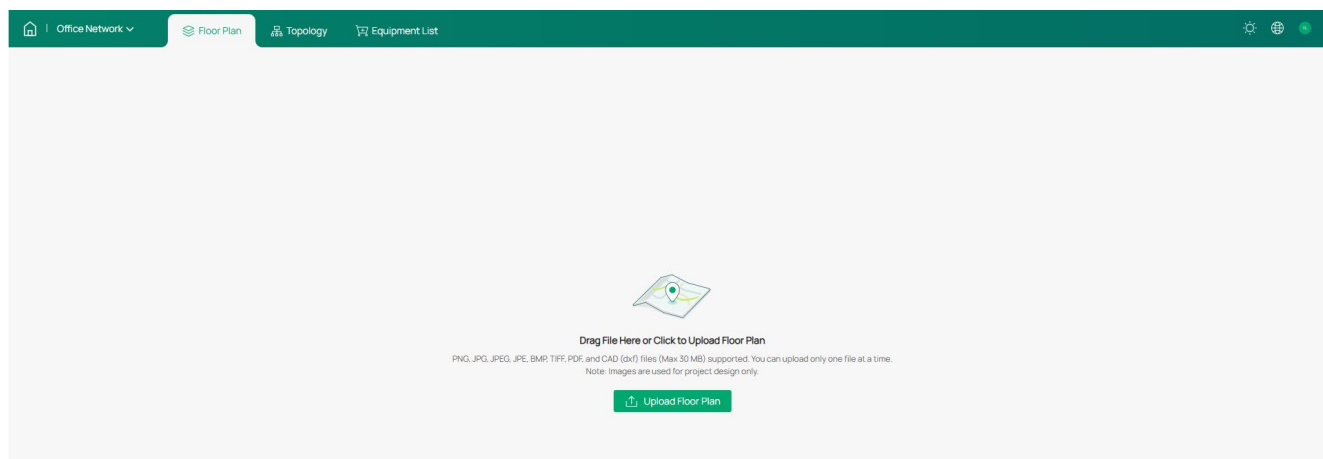
Name :

Confirm

Cancel

Create Floors

After creating your project, you will be automatically redirected to the following Floor Plan page.



To create a floor, follow these steps:

1) Click **Upload Floor Plan** and choose a file from your computer. You can also drag the file directly to the page to upload.

Note:

Multiple formats, including PNG, JPG, JPEG, JPE, BMP, TIFF, PDF, and CAD (dxf) files (Max 30 MB), are supported, but only one file can be uploaded at a time.

2) Specify the floor name, floor number, and ceiling height, and select a layout most suitable for your map, which will make the simulation more accurate. You can click the image to preview it and re-upload another file if you want to change it. Click **Confirm**.

Add Floor ×

Floor Name

Floor Name

Floor Number

1

Ceiling Height

3

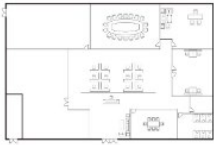
m / ft

(0-50, default 3)

Layout

 Open-Plan Space ▼

Medium attenuation, open space, few partitions, even signal coverage.



 Office Map.jpg

Re-upload

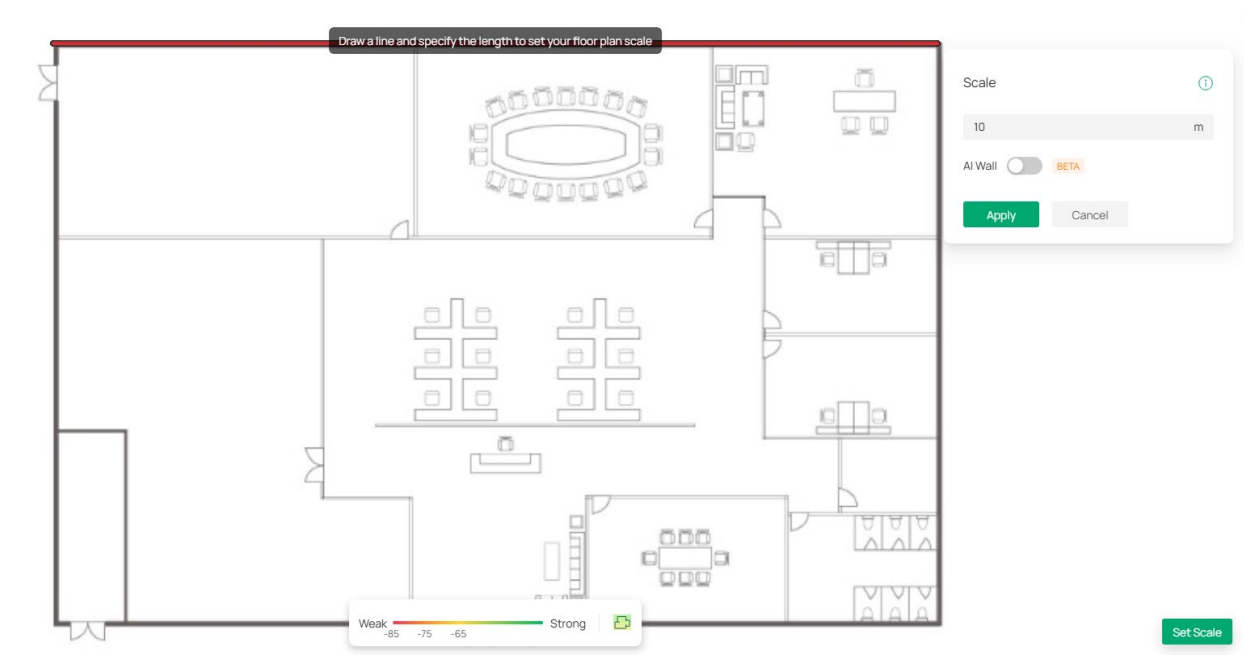
Confirm

Cancel

Note:

You can switch the unit for the ceiling height between meter and feet.

3) After creating the floor, left-click at the starting point and left-click again at the ending point to draw a line on the map and specify its length to set your floor plan scale. Click **Apply**.

**Note:**

- The floor plan scale should reflect the actual environment, as it impacts wall

simulation, cable length, and wireless coverage.

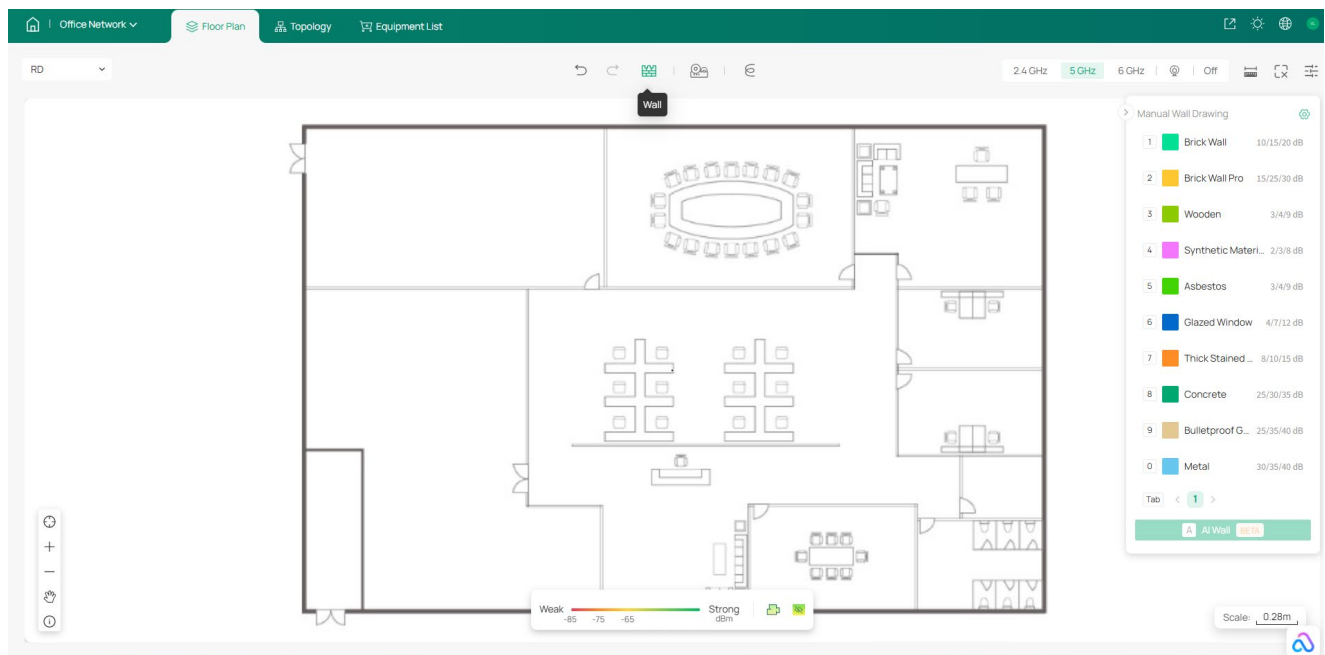
- To reset the scale, click the scale icon in the bottom right.

Draw Walls

Before deploying devices, draw walls for the floor to indicate the obstructions. You can draw the walls manually or take advantage of the AI Wall (BETA) to facilitate the process.

Note:

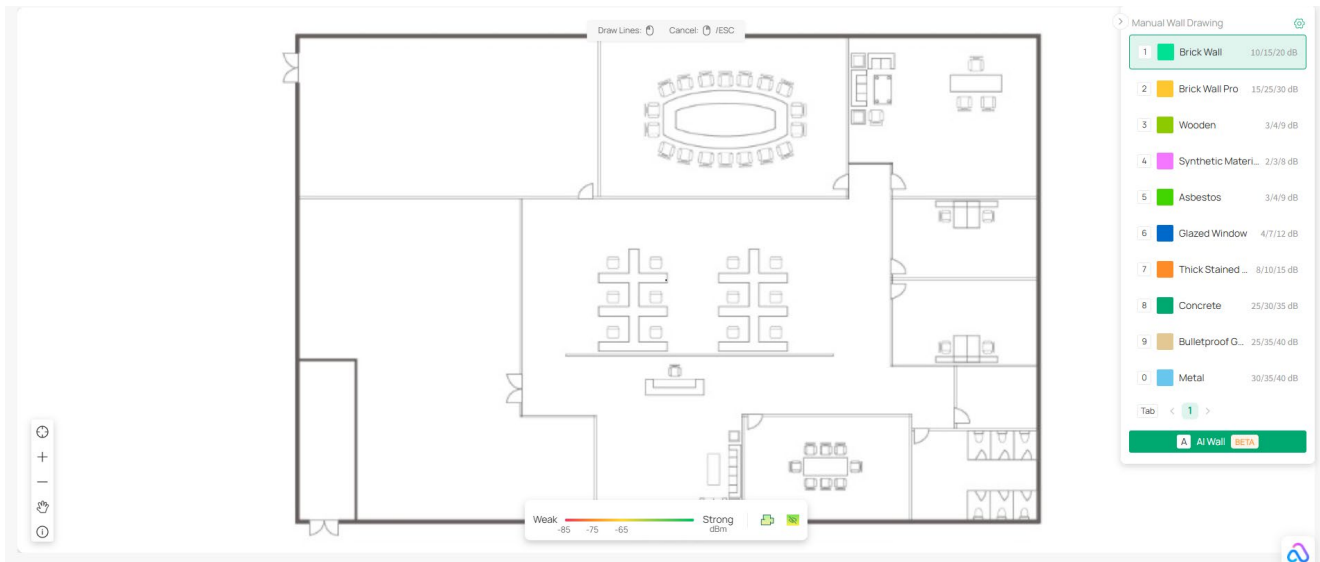
For more information on walls, refer to [Walls](#).



■ Draw Wall Manually

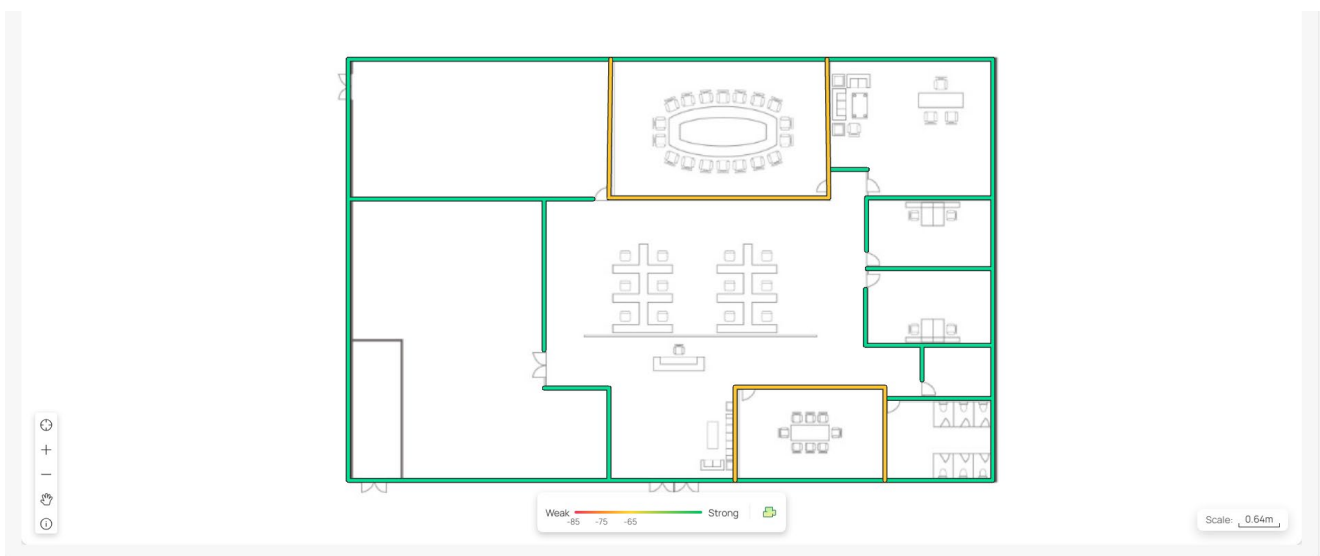
To draw walls manually, follow these steps:

- 1) Click **Wall** and choose the wall type on the right.



2) Left-click at the starting point to start drawing and left-click again at the ending point to place the wall. Walls can be drawn continuously. Right-click or press the Esc key to stop drawing.

3) When you finish drawing, right-click or press the Esc key to exit.



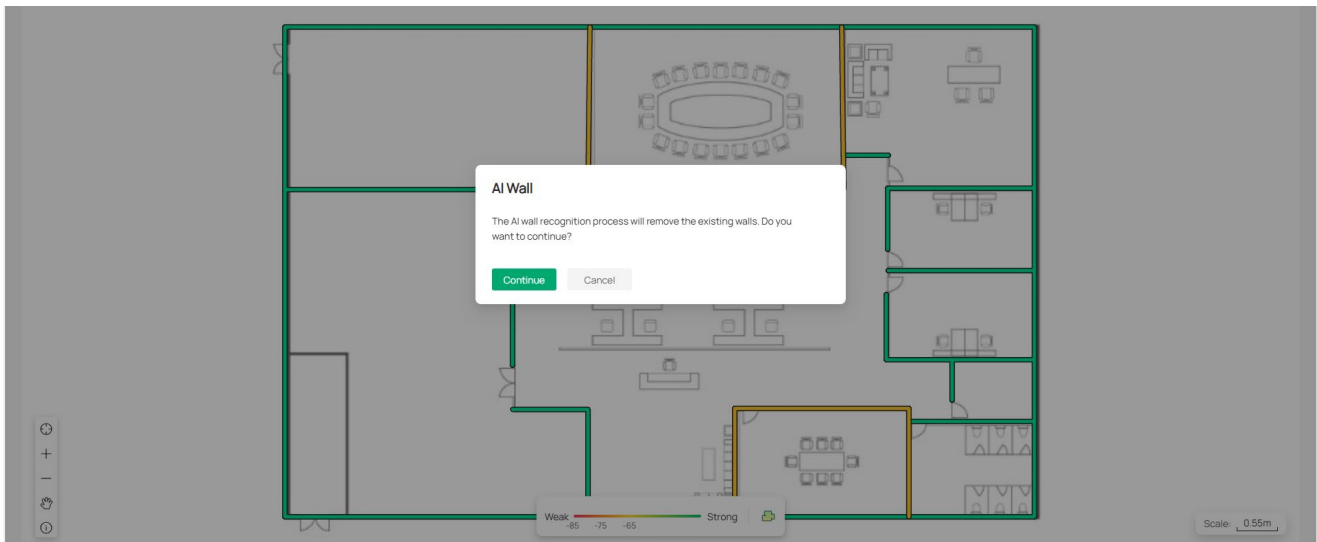
■ Use AI Wall

To use AI Wall, follow these steps:

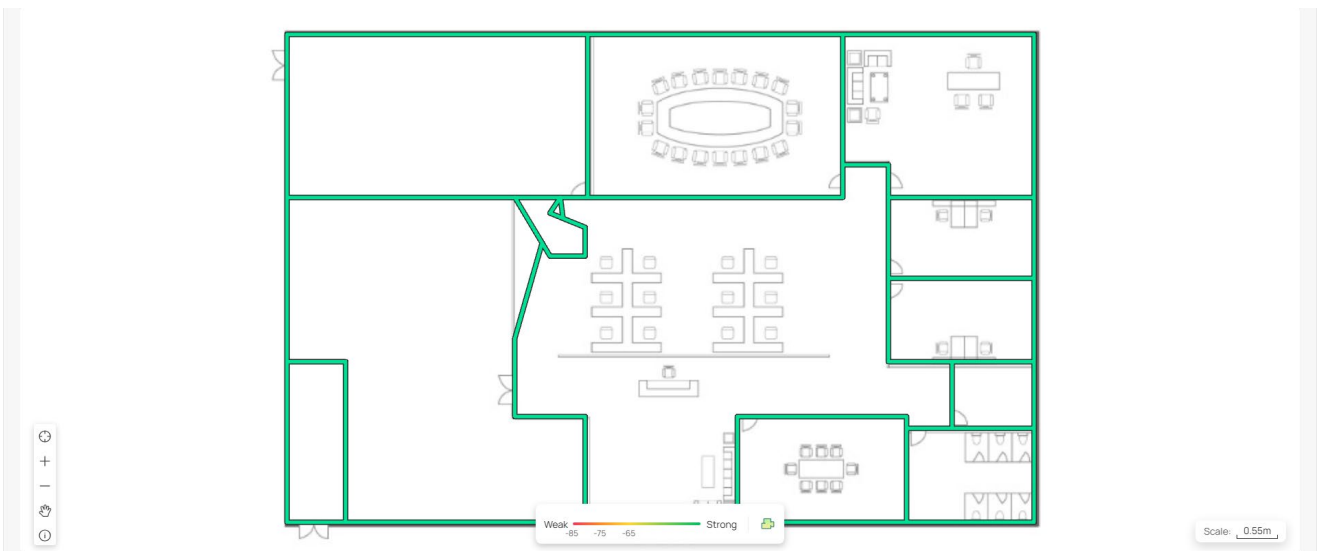
1) Select a wall type, and click **AI Wall**. Walls will be automatically drawn on the map.

Note:

The existing walls will be removed if you already draw walls on the floor plan.



2) Modify manually the walls generated by the AI tool.

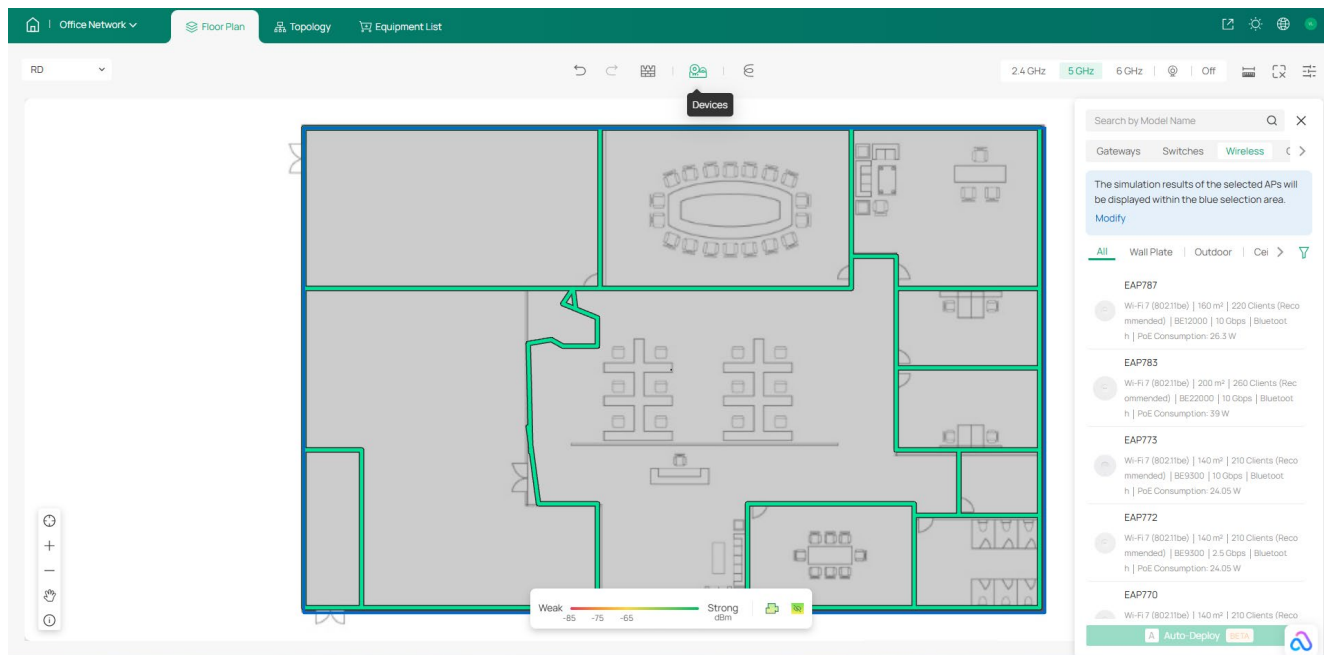


Deploy Devices

To deploy devices, you can select the devices manually or take advantage of the AI tool to facilitate the process.

Note:

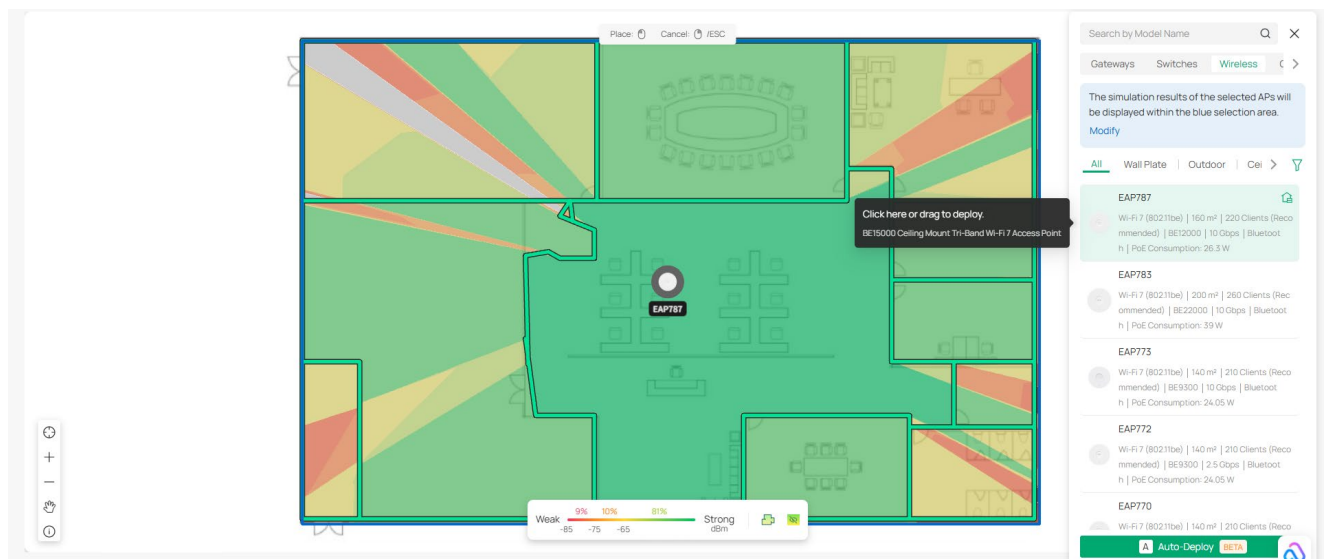
For more information on deploying devices, refer to [Devices](#).



■ Deploy Devices Manually

To deploy devices manually, follow these steps:

- 1) Click **Devices** and choose the device type on the right based on your needs.
- 2) Left-click or drag the selected device on the floor plan. The device can be placed on the map continuously. Right-click or press the Esc key to stop placing the selected device.
- 3) When you finish deploying devices, right-click or press the Esc key to exit.



Note:

You can click **Click to Website** to go to the corresponding product page for more information on the device.

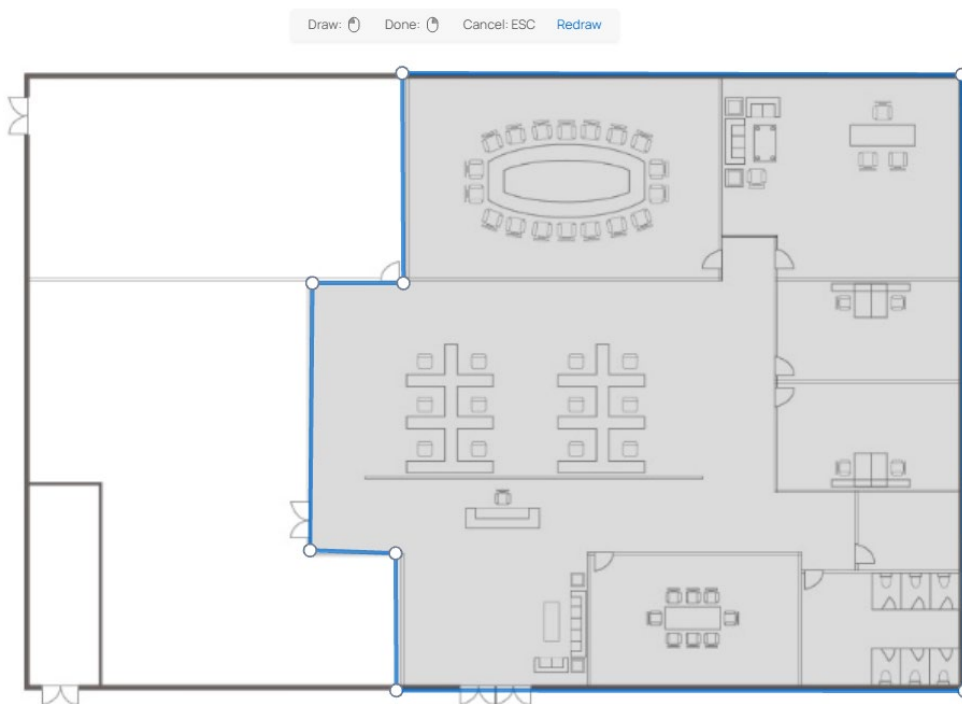
■ Use Auto-Deploy (for EAPs only)

To use Auto-Deploy, follow these steps:

1) Select a device model, click **Auto-Deploy**.

Note:

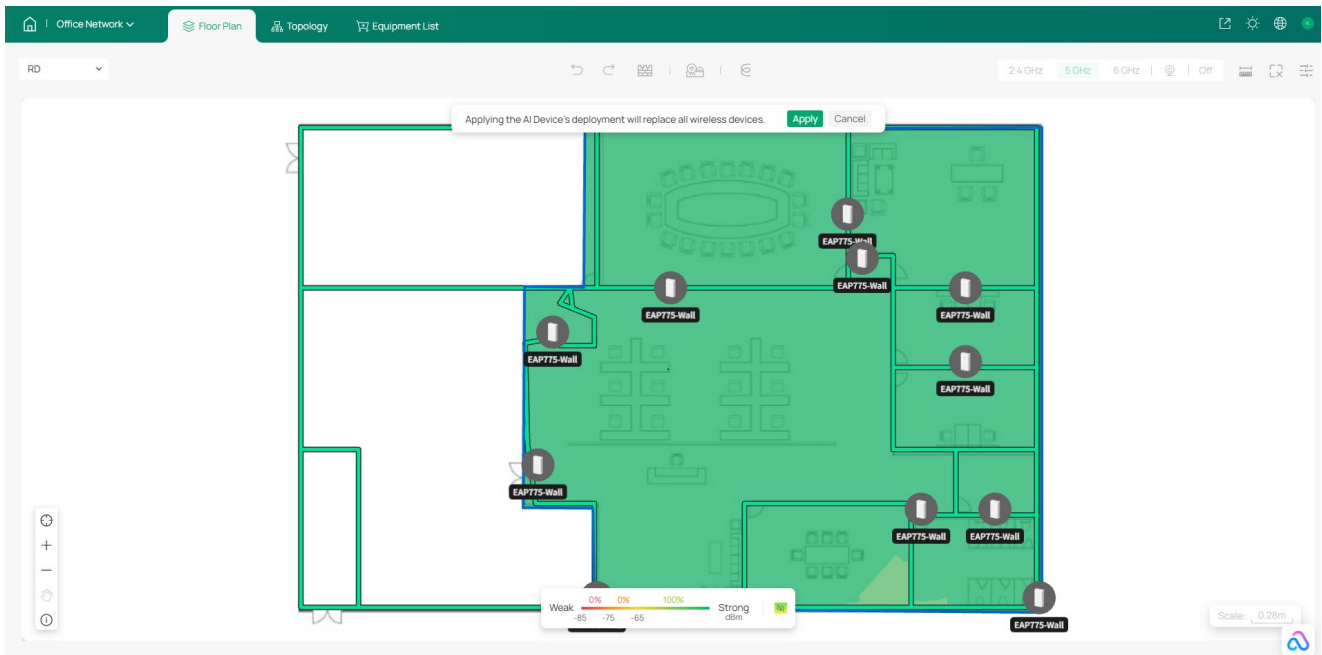
- Only EAPs are currently available for AI Devices.
- A blue selection area will be automatically generated. The selected AP will be automatically deployed (max 300) within the area, and the corresponding simulation results will appear in the blue selection area. If you want to modify the area, click **Modify**.



2) Click **Apply** to apply the AI deployment.

Note:

Applying the AI Device's deployment will replace all the existing EAPs on the current floor.

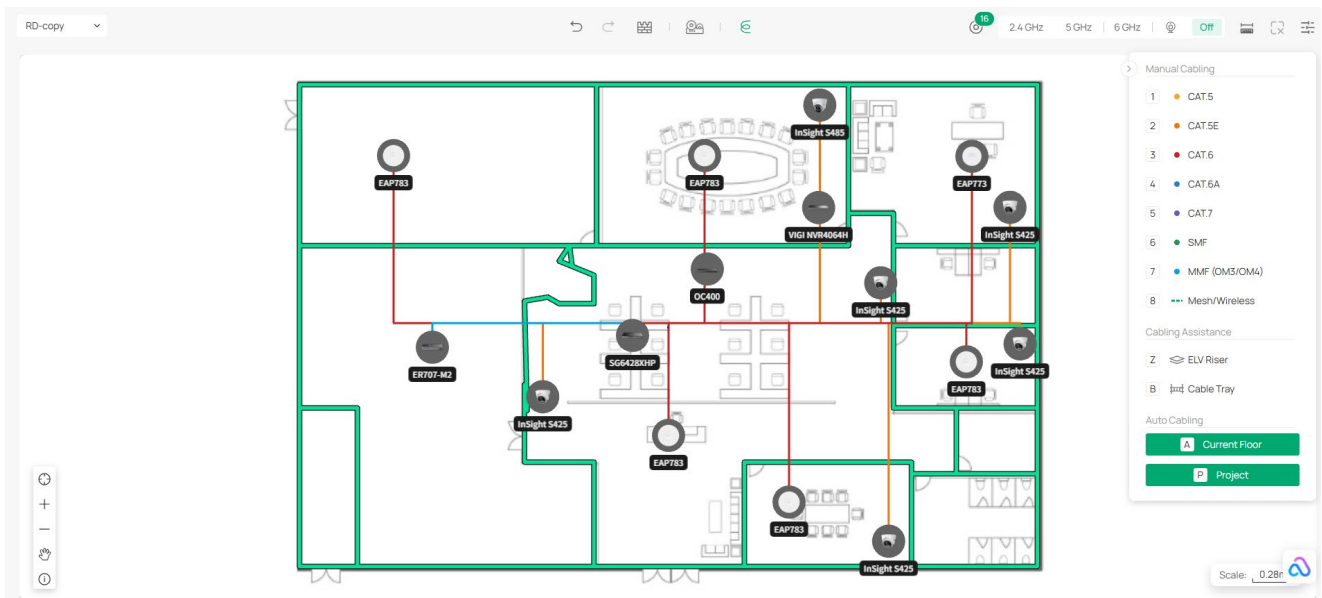


Deploy Cables

To deploy cables, you can select the cable type and deploy the cables manually or take advantage of the Auto Cabling tool to facilitate the process.

Note:

For more information on cabling, refer to [Cabling](#).

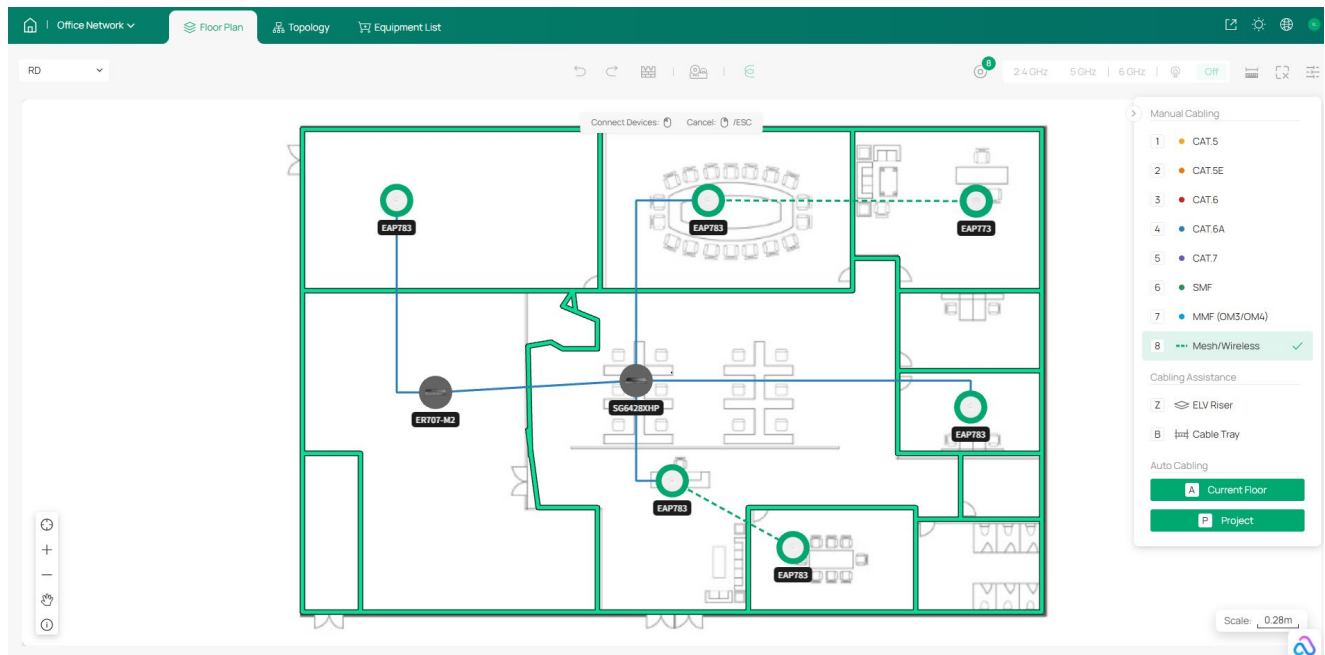


■ Deploy Cables Manually

To deploy cables manually, follow these steps:

- 1) Click **Cable** and choose the cable type on the right.

2) Click a device and then another to connect the two devices with the selected cable. You can click on the floor plan to add a bend point to ensure the cable is routed horizontally or vertically.



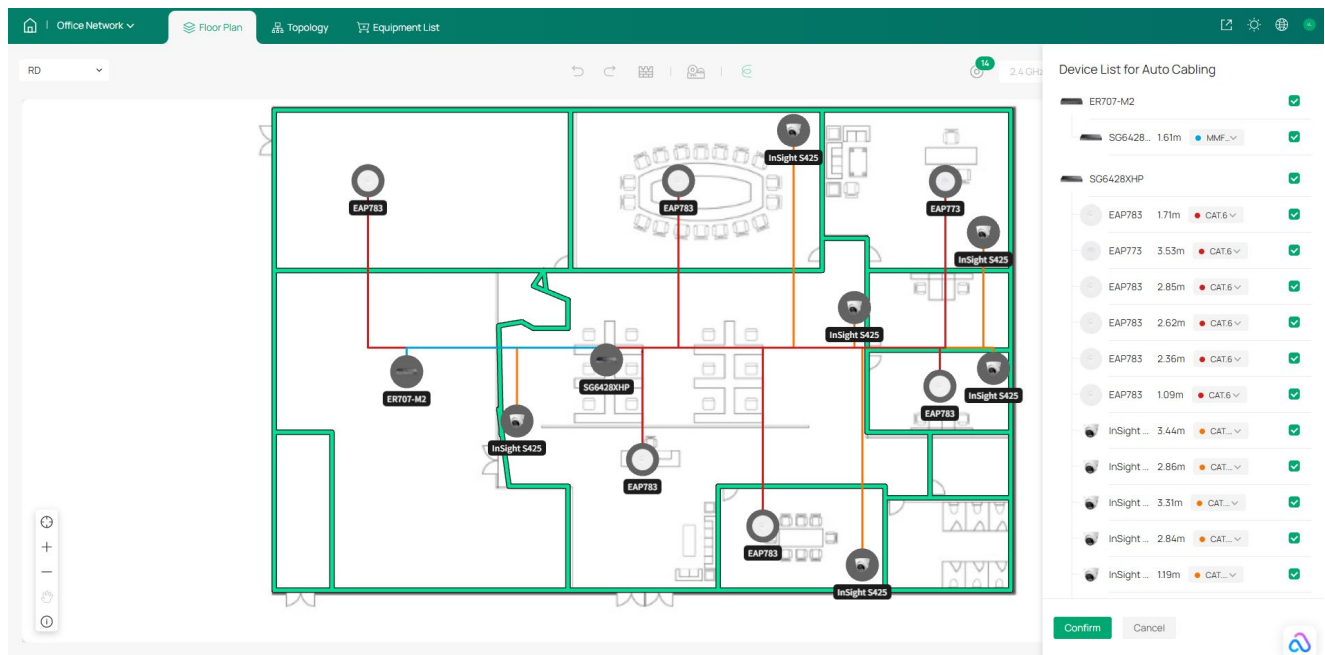
■ Use Auto Cabling

To use Auto Cabling, follow these steps:

- 1) Click **Cable**.
- 2) Click **Current Floor** or **Project** to automatically deploy cables on the current floor or for the whole project.
- 3) Select the cabling results you want to keep or modify the cable type as needed. Click **Confirm**.

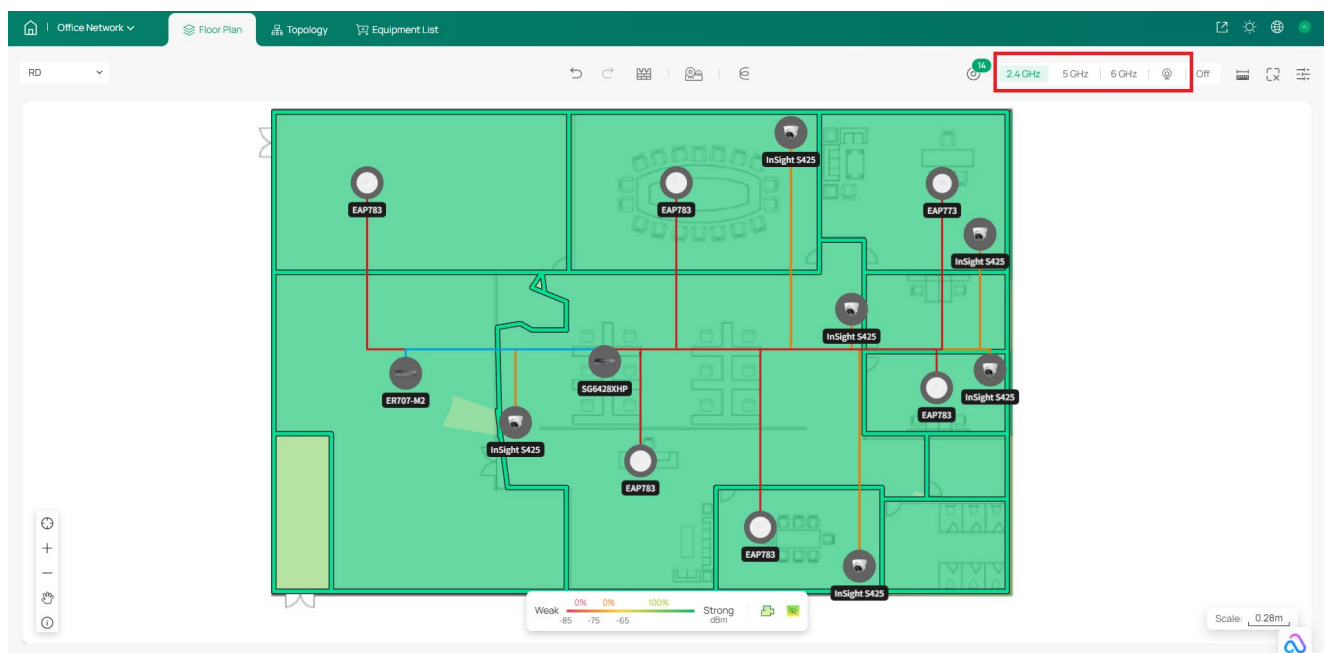
Note:

Applying auto cabling will remove all the existing cables.



Check Simulation

After network deployment, you can click **2.4 GHz/5 GHz/6 GHz/Surveillance** to view the simulation result in different frequency bands and for monitoring coverage.

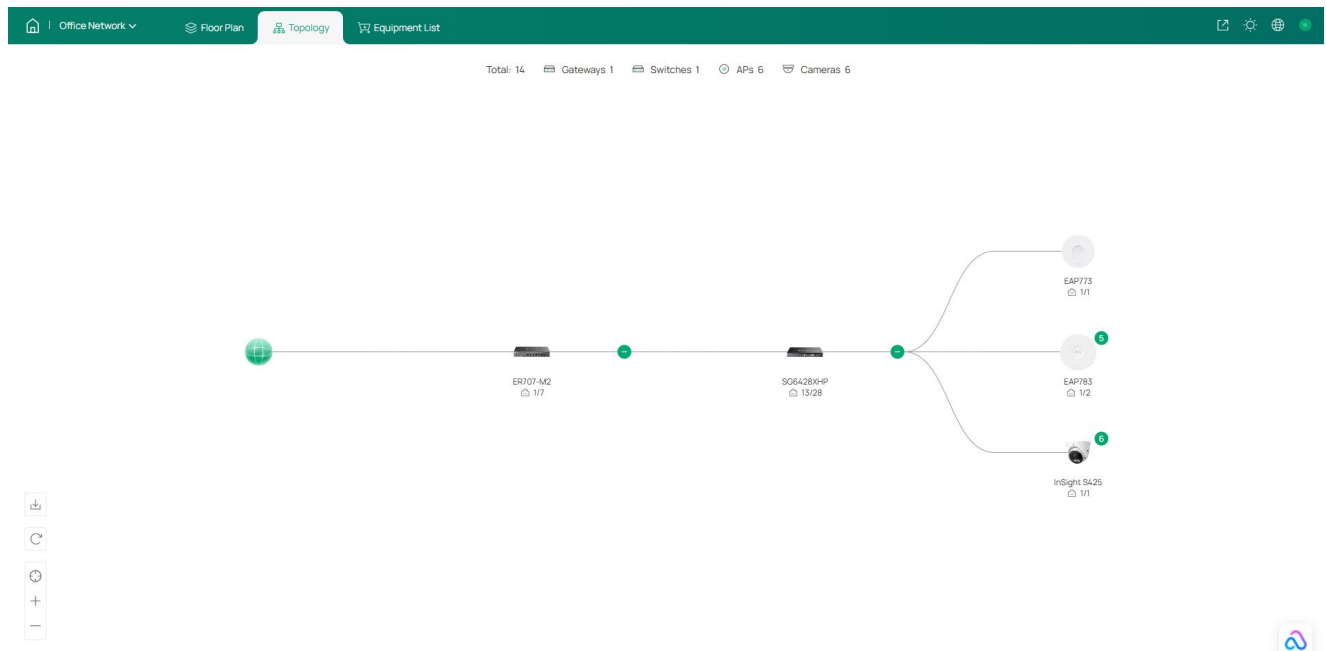


Note:

By default, the simulation results (excluding camera coverage simulation results) will be shown within the simulation boundary. Click the  icon to modify the simulation boundary. You can also click the  icon to check the results outside the boundary. For more information on simulation, refer to [Simulation](#).

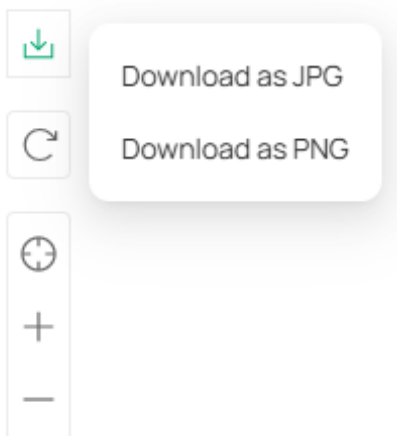
View Topology

To view the network topology of the whole project, click **Topology** on the top. You can view how the devices are connected (wired or wireless), hover your mouse over a specific device to check its port usage and locate the device.



You can click the icon  or  to fold the topology, and the number icon  or the device icon with a number to unfold.

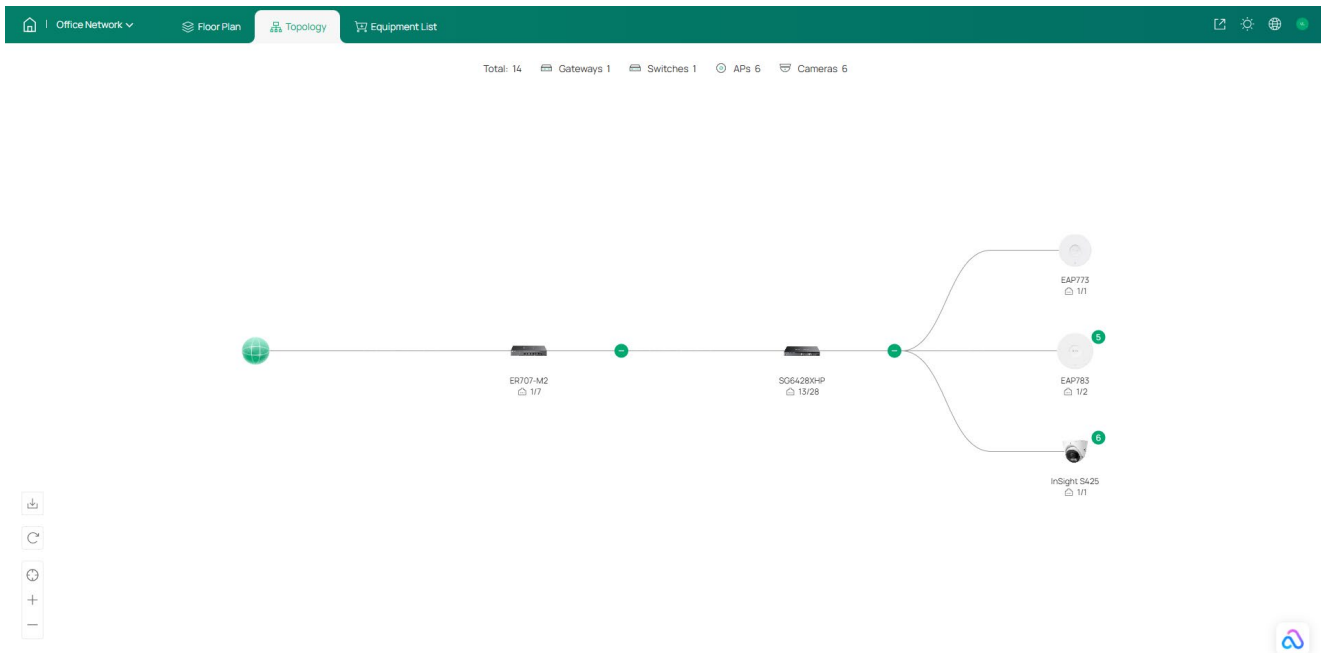
You can click the icon  at the bottom left to export the topology as an image.



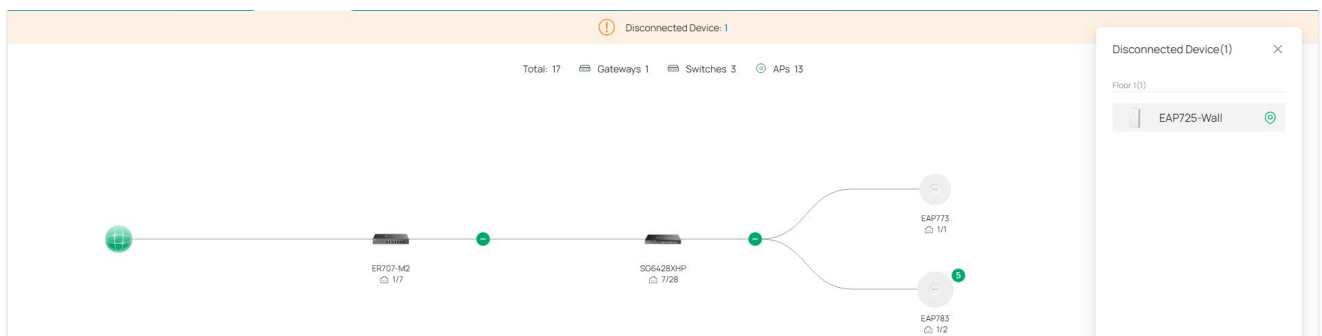
Note:

The numbers indicate how many devices are connected to the uplink device.

Click the icon  at the bottom left to restore the topology to the default view.



If there are disconnected devices, you will be noted on the top of the page. Click the warning note and you can find a list of disconnected devices. Click the icon  to locate the device on the floor plan.



Check Equipment List

To check the equipment used for the project and calculate the fees, click **Equipment List** on the top.

Equipment List

[All](#)
[Gateways](#)
[Switches](#)
[Wireless](#)
[OLTs](#)
[Controllers](#)
[Cameras](#)
[NVRs](#)
[Accessories](#)

☒ Show Price
 SGD
 [+ Add Accessories](#)

Equipment	Description	Floor Plan's Quantity	Backup	Total	Unit Price	Discount	Total Price
ER707-M2	Omada Multi-Gigabit VPN Gateway	1	0	1	SGD 0	0 %	SGD 0.00
SG6428XHP	Omada 24-Port Gigabit Stackable L3 ...	1	0	1	SGD 0	0 %	SGD 0.00
EAP783	BE22000 Ceiling Mount Tri-Band Wi-Fi...	5	0	5	SGD 0	0 %	SGD 0.00
EAP773	BE11000 Ceiling Mount Tri-Band Wi-Fi...	1	0	1	SGD 0	0 %	SGD 0.00
InSight S425	VIGI 2MP Full-Color Turret Network C...	6	0	6	SGD 0	0 %	SGD 0.00
CAT.5E	Supports 1 Gbps rate within 100 m / 3...	16 m (53 ft)	0	16 m (53 ft)	SGD 0	0 %	SGD 0.00
CAT.6	Supports 10 Gbps rate within 55 m / 1...	15 m (50 ft)	0	15 m (50 ft)	SGD 0	0 %	SGD 0.00
MMF (OM3/OM4)	Supports 10 Gbps rate within 300 m / ...	2 m (7 ft)	0	2 m (7 ft)	SGD 0	0 %	SGD 0.00

Showing 1-8 of 8 records < 1 > 10 / page

Additional Fees ☒ [+ Add Additional Fee](#)

Fee Name	Description	Quantity	Unit Price	Discount	Total Price	Action
Remote Maintenance	Remote maintenance fees cover the charges for maintaining your device...	1	SGD 0	0 %	SGD 0.00	Add

Showing 1-1 of 1 records < 1 > 10 / page

Price Details

Products SGD 0.00
 Additional Fees SGD 0
 Tax Rate 0 %
 Taxes SGD 0.00
Total SGD 0.00
[Find a Reseller](#)

■ Use the Storage & Bandwidth Calculator

On the **Equipment List** page, you can use the Storage & Bandwidth Calculator to estimate storage, bandwidth usage, and storage time based on your device setup.

1) Click , the system will automatically display the number of Cameras, NVRs, and HDD Slots based on your floor plan configuration. Ensure that the counts are accurate for your setup.

Calculator ✕

Cameras 12 NVRs 1 HDD Slots 4

[Storage Usage](#) [Storage Time](#) [Bandwidth Usage](#)

Encoding Type: H265+ Video Retention: 0 Days

[← Calculate](#) [Reset](#)

2) Select the Calculation Type: Choose one of the following options:

Storage Usage: Estimate how much storage is needed for your devices.

Storage Time: Determine how long your video footage can be stored given the available storage space.

Bandwidth Usage: Estimate the bandwidth required for your devices based on encoding and retention settings.

3) Configure the following:

Encoding Type Select the video encoding type used by your cameras. For most systems, the default is H265+, but you can adjust it based on your configuration.

Video Retention Enter the retention period in days (the number of days you wish to store video footage).

HDD Volume If calculating storage or storage time, enter the hard disk drive volume (in TB or GB) that you have available for storage.

4) Once all fields are filled out, click **Calculate** to see the estimated results. You can click **Reset** to clear the setting and result.

Note: The calculator provides rough estimates to assist with planning, but the results are for reference only.

■ Modify Equipment List

On the **Equipment List** page, you can add backup devices and new accessories according to your needs and modify the number of the equipment on the list.

The screenshot displays the 'Equipment List' interface in the Omada Design Hub. The main table lists various network equipment items with their descriptions, quantities, and prices. The sidebar on the right allows for searching and selecting additional components like media converters. The bottom section, 'Additional Fees', provides a way to add and manage maintenance or other charges.

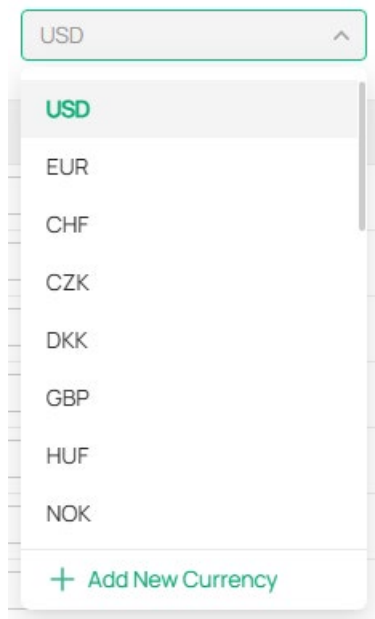
Equipment	Description	Floor Plan's Quantity	Backup	Total	Unit Price	Discount	Total Price
ER707-M2	Omada Multi-Gigabit VPN Gateway	1	0	1	SGD 0	0 %	SGD 0.00
SG6428XHP	Omada 24-Port Gigabit Stackable L3...	1	0	1	SGD 0	0 %	SGD 0.00
EAP783	BE22000 Ceiling Mount Tri-Band Wi-Fi...	5	0	5	SGD 0	0 %	SGD 0.00
EAP773	BE11000 Ceiling Mount Tri-Band Wi-Fi...	1	0	1	SGD 0	0 %	SGD 0.00
InSight S425	VIGI 2MP Full-Color Turret Network C...	6	0	6	SGD 0	0 %	SGD 0.00
CAT.5E	Supports 1 Gbps rate within 100 m / 3...	16 m (53 ft)	0	16 m (53 ft)	SGD 0	0 %	SGD 0.00
CAT.6	Supports 10 Gbps rate within 55 m / 1...	15 m (50 ft)	0	15 m (50 ft)	SGD 0	0 %	SGD 0.00
MMF (OM3/OM4)	Supports 10 Gbps rate within 300 m / ...	2 m (7 ft)	0	2 m (7 ft)	SGD 0	0 %	SGD 0.00

Fee Name	Description	Quantity	Unit Price	Discount	Total Price	Action
Remote Maintenance	Remote maintenance fees cover the charges for maintaining you device...	0	SGD 0	0 %	SGD 0.00	

■ Calculate Total Fees

To calcite the total fees, follow these steps:

1) Click **Show Price** and select your currency. If your currency is not available, click **Add New Currency**.



2) Enter the unit price and discount of the equipment.

Equipment List							
All Gateways Switches Wireless OLTs Controllers Cameras NVRs Accessories				☒ Show Price	USD	+ Add Accessories	
Equipment	Description	Floor Plan's Quantity	Backup	Total	Unit Price	Discount	Total Price
ER707-M2	Omada Multi-Gigabit VPN Gateway	1	0	1	USD 89.9	0 %	USD 89.90
SG6428XHP	Omada 24-Port Gigabit Stackable L3 ...	1	0	1	USD 719.99	5 %	USD 683.99
EAP783	BE22000 Ceiling Mount Tri-Band Wi-Fi ...	5	0	5	USD 499.99	10 %	USD 2249.96
EAP773	BE11000 Ceiling Mount Tri-Band Wi-Fi ...	1	0	1	USD 389.99	15 %	USD 331.49
InSight S425	VIGI 2MP Full-Color Turret Network C...	6	0	6	USD 69.99	0 %	USD 419.94
CAT.5E	Supports 1 Gbps rate within 100 m / 3...	16 m (53 ft)	0	16 m (53 ft)	USD 0.79	0 %	USD 12.64
CAT.6	Supports 10 Gbps rate within 55 m / 1...	15 m (50 ft)	2	17 m (56 ft)	USD 0.99	0 %	USD 16.83
MMF (OM3/OM4)	Supports 10 Gbps rate within 300 m / ...	2 m (7 ft)	0	2 m (7 ft)	USD 0	0 %	USD 0.00

Showing 1-8 of 8 records < 1 > 10 / page

Price Details

Products	USD 3804.75
Additional Fees	USD 199.00
Tax Rate	0 %
Taxes	USD 0.00
Total	USD 4003.75

[Find a Reseller](#)

Note:

The unit price and discount vary in different regions and countries. Refer to your local store or website for the latest prices.

3) If there exists other related fees, enable **Additional Fees** and add the fees according to your needs.

Note:

Five customizable templates of additional fees are available and you can also create your own. Make sure to describe the fees clearly to avoid confusion.

Additional Fees

[+ Add](#)

☐	Fee Name	Description	Action
☐			✓ ✕
☒	Remote Maintenance	The fees for the installer maintaining your devices remotel...	
☐	Installation and Commissioning	The fees for successful on-site installation and commissio...	
☐	Health Check Report	Health check reports are sent to you so that you can get th...	
☐	On-Site Maintenance (Annual)	The fees for on-site maintenance (annual). The installer pr...	
☐	Travel and Call Cost	The cost of traveling for on-site maintenance, or calls for r...	

Save

Cancel

After setting the prices and fees, you can check the price details on the right. Click **Find a Reseller** to check where to buy the Omada products on the list.

Equipment List

[All](#)
[Gateways](#)
[Switches](#)
[Wireless](#)
[OLTs](#)
[Controllers](#)
[Cameras](#)
[NVRs](#)
[Accessories](#)

☒ Show Price
 USD
[+ Add Accessories](#)

Equipment	Description	Floor Plan's Quantity	Backup	Total	Unit Price	Discount	Total Price
ER707-M2	Omada Multi-Gigabit VPN Gateway	1	- 0 +	1	USD 89.9	0 %	USD 89.90
SG6428XHP	Omada 24-Port Gigabit Stackable L3 ...	1	- 0 +	1	USD 719.99	5 %	USD 683.99
EAP783	BE22000 Ceiling Mount Tri-Band Wi-F...	5	- 0 +	5	USD 499.99	10 %	USD 2249.96
EAP773	BE11000 Ceiling Mount Tri-Band Wi-Fi...	1	- 0 +	1	USD 389.99	15 %	USD 331.49
InSight S425	VIGI 2MP Full-Color Turret Network C...	6	- 0 +	6	USD 69.99	0 %	USD 419.94
CAT.5E	Supports 1 Gbps rate within 100 m / 3...	16 m (53 ft)	- 0 +	16 m (53 ft)	USD 0.79	0 %	USD 12.64
CAT.6	Supports 10 Gbps rate within 55 m / 1...	15 m (50 ft)	- 2 +	17 m (56 ft)	USD 0.99	0 %	USD 16.83
MMF (OM3/OM4)	Supports 10 Gbps rate within 300 m / ...	2 m (7 ft)	- 0 +	2 m (7 ft)	USD 0	0 %	USD 0.00

Showing 1-8 of 8 records < 1 > 10 / page

Additional Fees ☒

[+ Add Additional Fee](#)

Fee Name	Description	Quantity	Unit Price	Discount	Total Price	Action
Remote Maintenance	Remote maintenance fees cover the charges for maintaining you device...	- 1 +	USD 199	0 %	USD 199.00	

Showing 1-1 of 1 records < 1 > 10 / page

Price Details

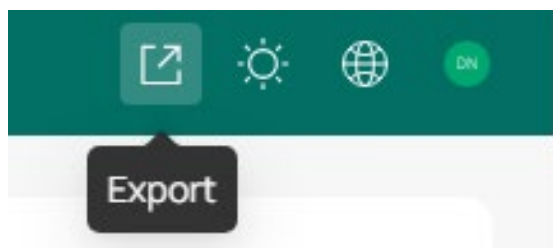
Products USD 3804.75
 Additional Fees USD 199.00
 Tax Rate 0 %
 Taxes USD 0.00
Total USD 4003.75

[Find a Reseller](#)

Export Report

To export the design report of the project, follow these steps:

1) Click the Export icon in the upper right of the page.



2) Select the content (equipment list, topology, floor plan, Wi-Fi coverage, camera coverage, or installation instructions) you want to export and the file type.

3) Select the file type you want to export: PDF, DOCX, or XLSX.

4) Modify the project name, specify the author name and the company name, upload a logo, or display watermark as needed. Click **Confirm**.

Export

×

Content :

☒ All

☒ Equipment List

☒ Floor Plan

☒ Camera Coverage

☒ Topology

☒ Wi-Fi Coverage

☒ Installation Instructions

File Type :

☐ PDF ☒ DOCX ☐ XLSX

Project Name :

Office Network

Author Name :

(Optional)

Company Name :

(Optional)

Logo :

Upload

(Optional)

PNG, JPG, JPEG, BMP, TIFF, and TIF files (Max 8 MB) supported.

Display Watermark :

☐

Confirm

Cancel

Note:

Do not leave this page or the export will be interrupted.

Do not modify the floor plan during the export process.

Omada Design Hub Function Description

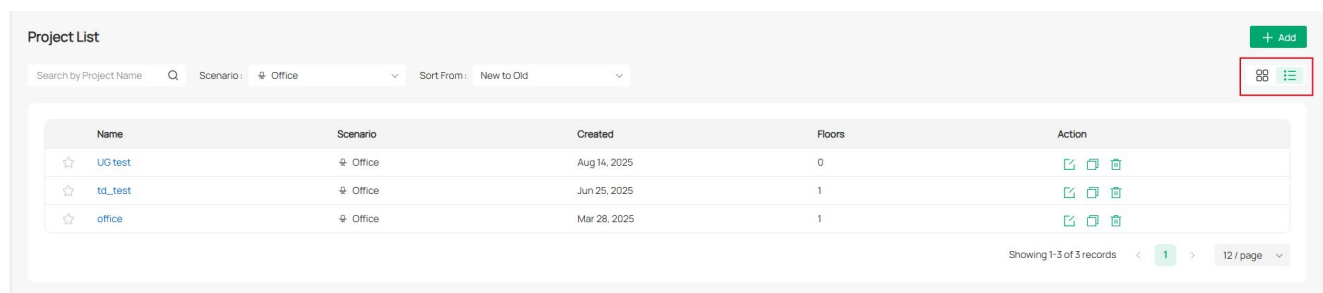
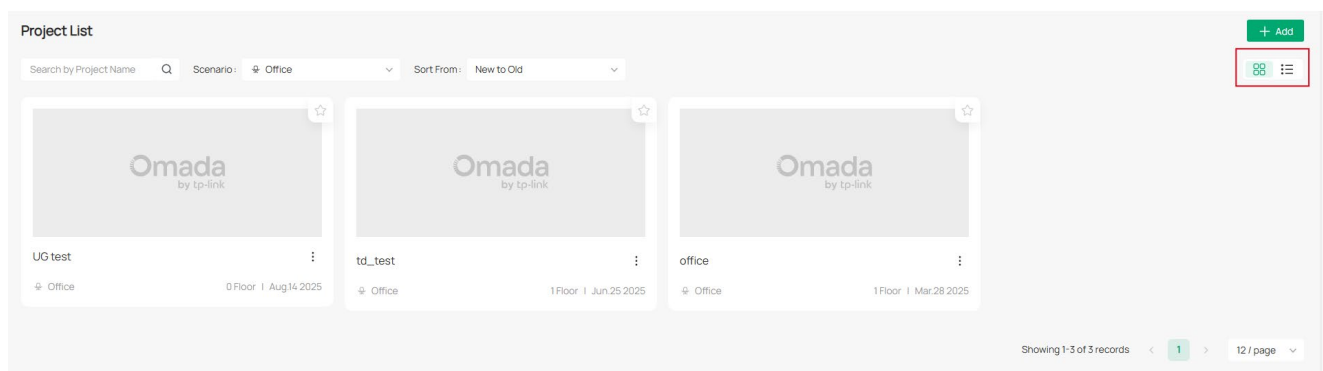
This chapter describes the major functions provided by Omada Design Hub.

Manage Projects

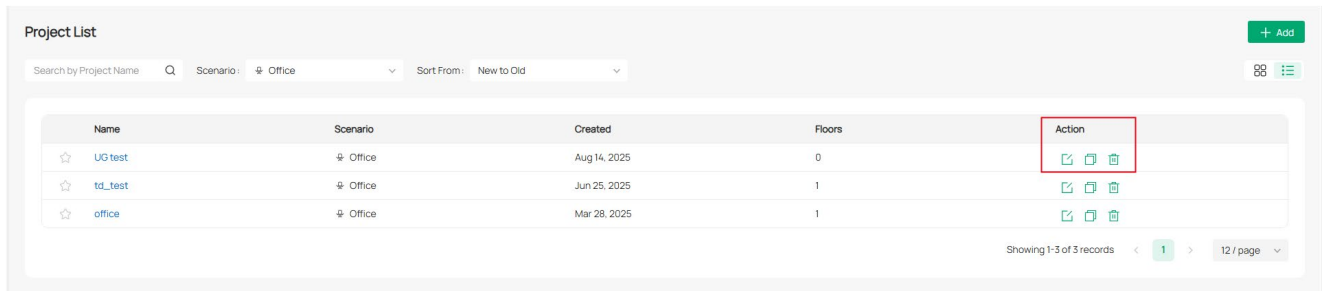
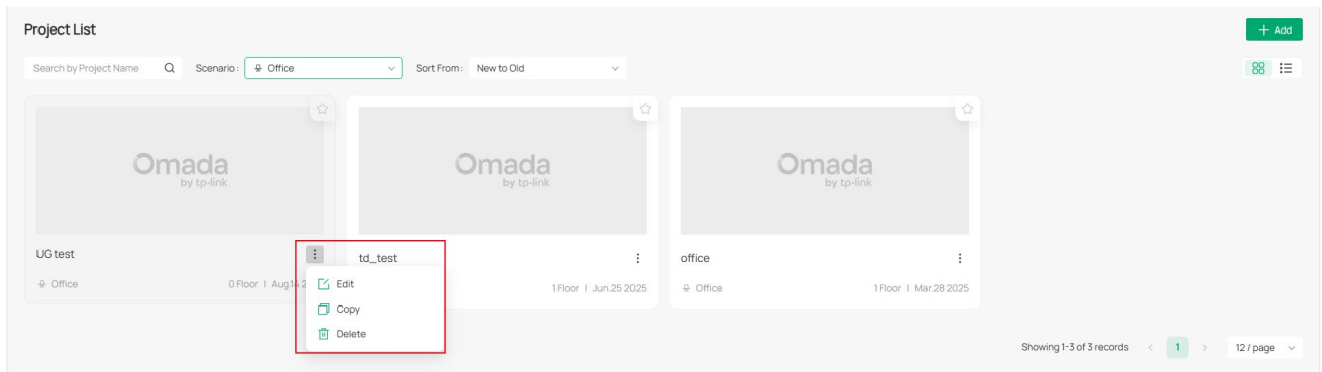
After creating projects, you can view them on the **Project List** page. You can change the view type (Card view by default) of the project list by clicking the Switch View icons on the right.

To search a specific project, use the search box above the table. To filter the projects by their scenario, select the specific scenario in the drop-down list. You can also sort the projects from New to Old or from Old to New.

Click the star icon to bookmark a specific project, which will then be displayed at the top of the list.



To edit, copy, or delete the projects, hover your mouse over the icon  in the Card view or click the corresponding icon in the **Action** column in the List view.



■ Edit Projects

Click the **Edit** icon, and you can modify the project name or change the project scenario. Click **Confirm** to apply the changes.

Edit Project

×

Project Name :

Scenario : Office

ConfirmCancel

■ Copy Projects

Click the **Copy** icon, and you can create a new project with the same configurations as the existing one. Specify the new project name and click **Confirm**.

Copy Project



Project Name :

UG test-copy

Note: With Copy Project, you can create a new project with the same configurations as the existing one.

Confirm

Cancel

Delete Projects

Click the **Delete** icon, and click **Confirm** to delete the project.

Delete Project?

Are you sure you want to delete this project? Your floor plans in this project will be deleted and this action cannot be undone.

Confirm

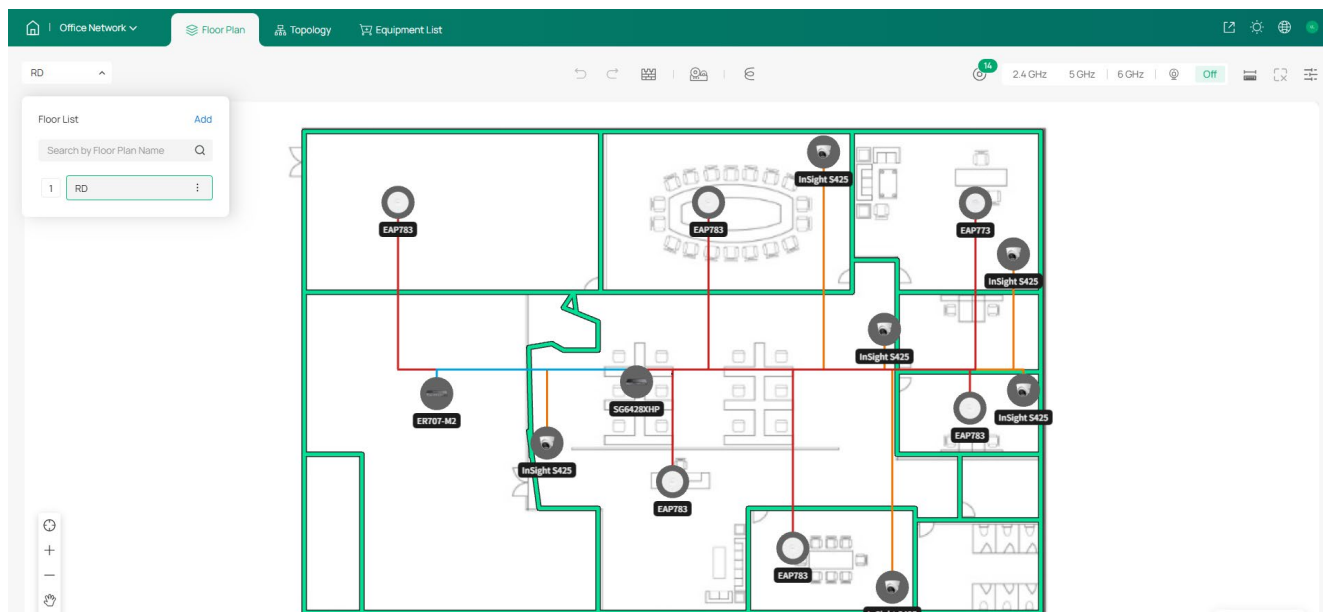
Cancel

Note:

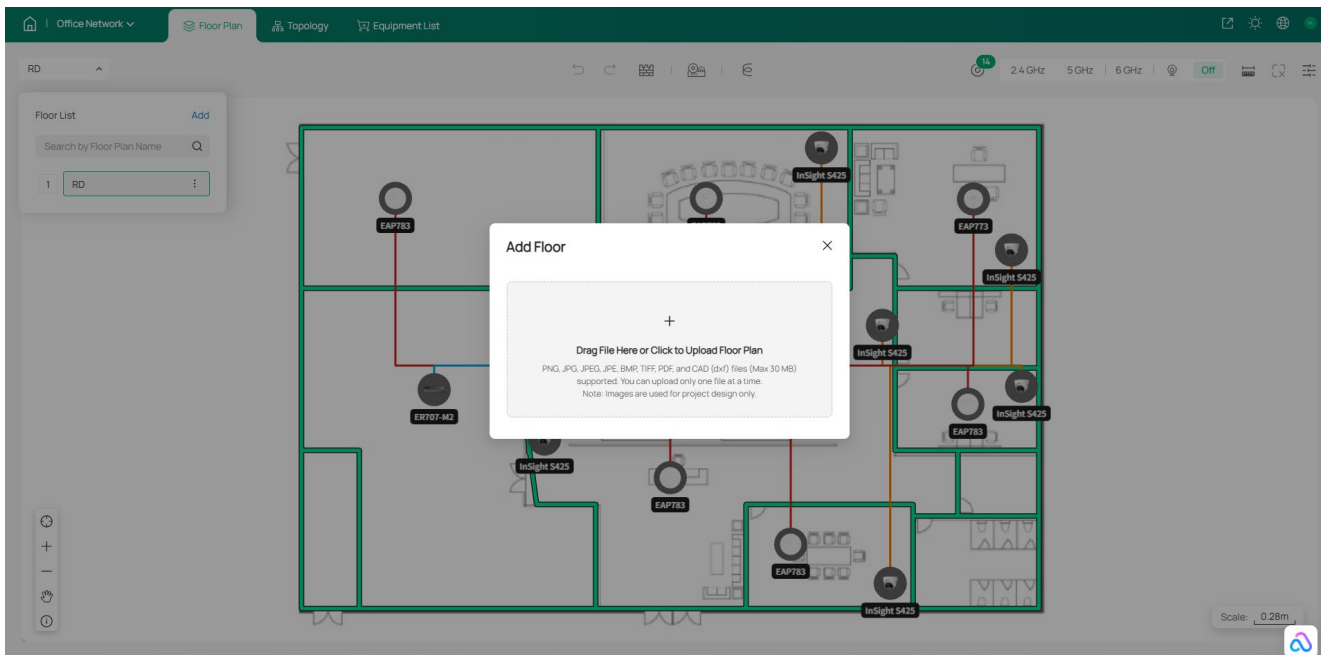
The floor plans in this project will be deleted and this action cannot be undone.

Manage Floors

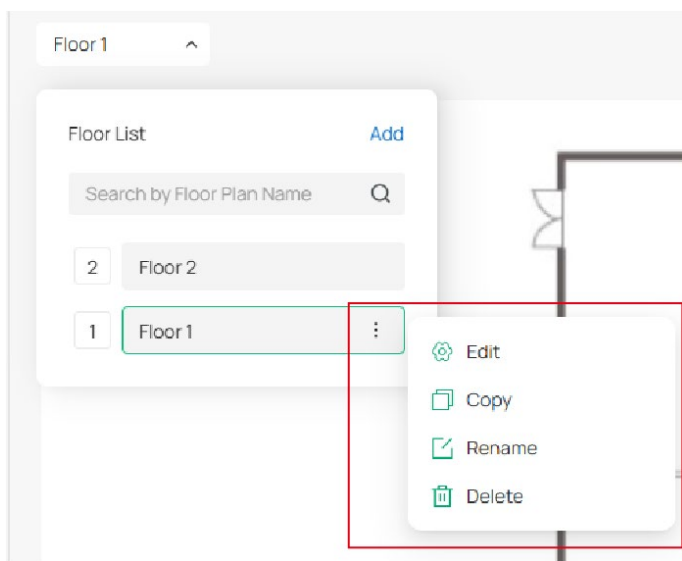
After creating floors, you can view them on the **Floor List**.



To create a new floor for the project, click **Add** on the **Floor List** and upload a floor plan.



To edit, copy, rename, or delete the floor, click the icon



■ Edit Floor

Click **Edit**, and you can modify the floor name, floor number, ceiling height, and layout, or re-upload the floor plan. Click **Confirm** to apply the changes.

Floor Plan Settings



Floor Name

Floor 1

Floor Number

1

Ceiling Height

3

m / ft

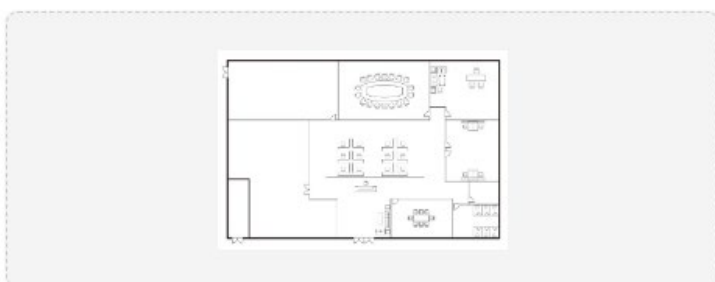
Layout



Open-Plan Space



Medium attenuation, open space, few partitions, even signal coverage.



[Re-upload](#)

Confirm

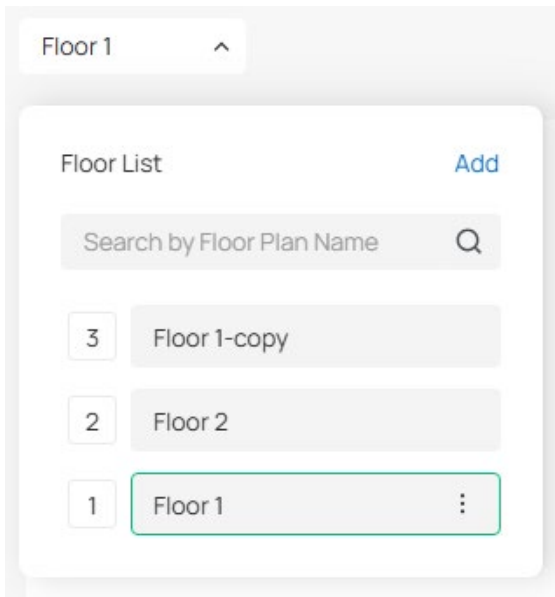
Cancel

Note:

You can switch the unit for the ceiling height between meter and feet.

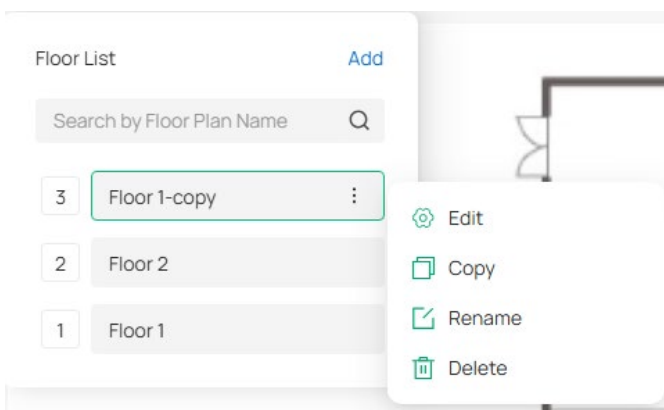
■ Copy Floor

Click **Copy**, and you can create a new floor with the same configurations as the existing one.



■ Rename Floor

Click **Rename**, and you can change the name of the floor.



■ Delete Floor

Click **Delete**, and click **Confirm** to remove the floor.

Delete Floor Plan

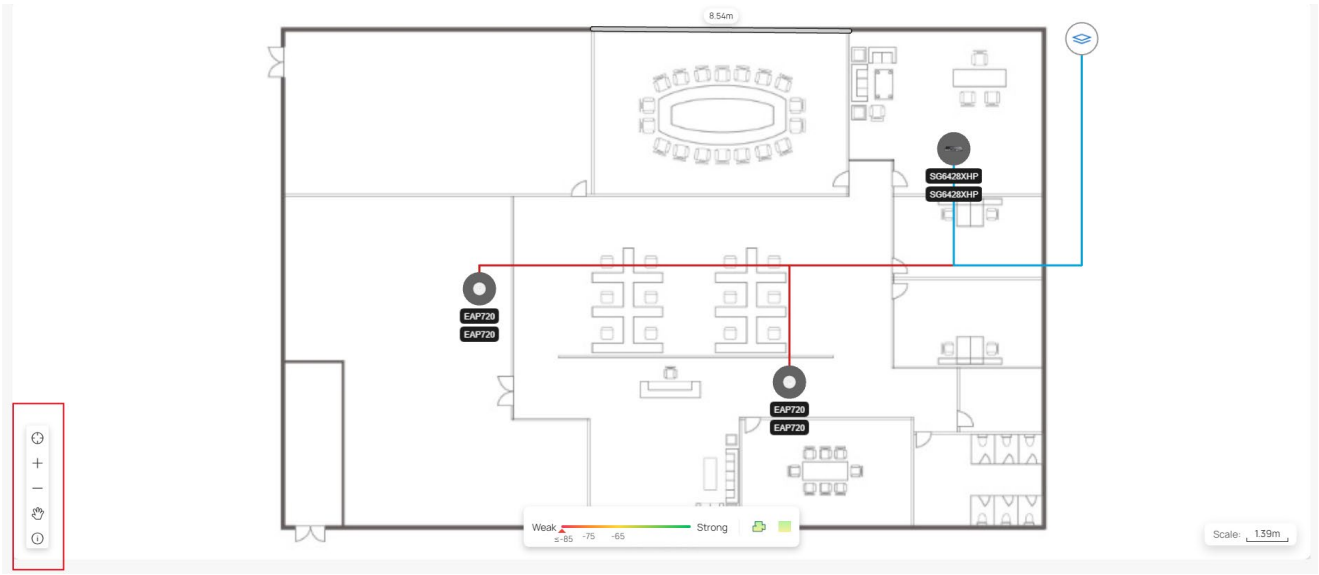
Are you sure you want to remove Floor 1-copy? All data in this floor plan will be removed and this action cannot be undone.

Delete

Cancel

■ Change Floor View

The panel in the bottom left allows you to change the floor view.



Click to change to the default view.



Click to zoom in the floor map.



Click to zoom out the floor map.



Click to change to the panning gesture that allows your to move the floor map.

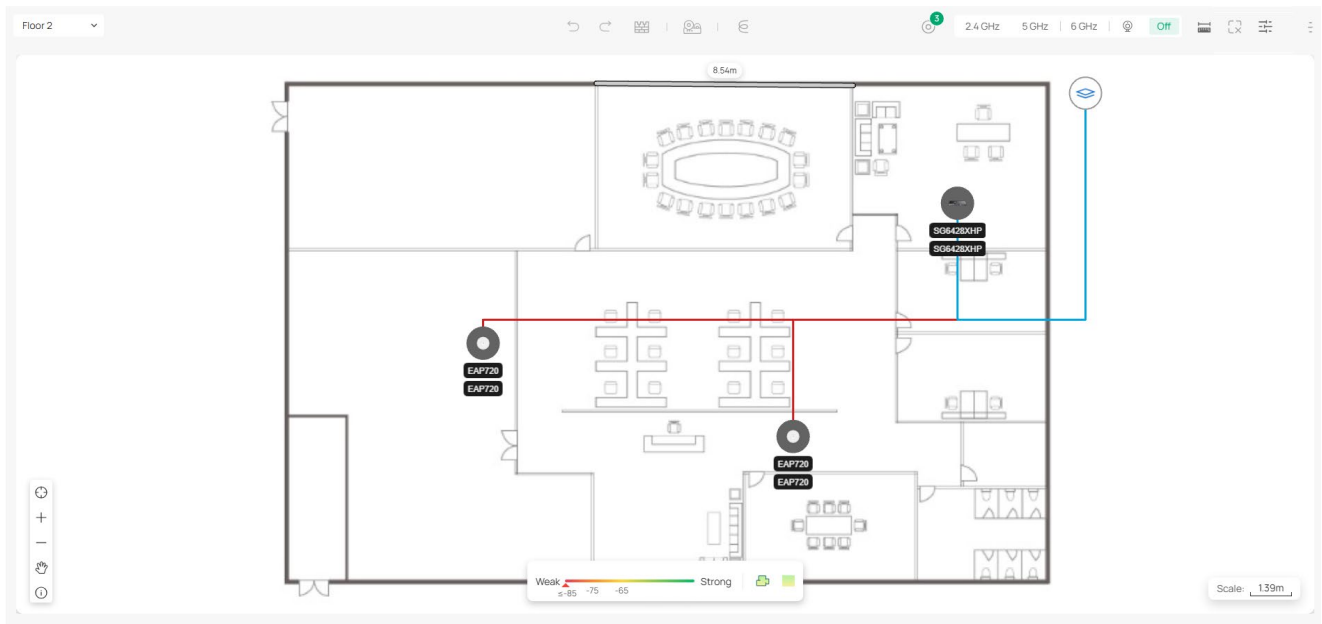
Note:

Hover your mouse over the Information icon and you will see the shortcuts that simplify your operations.



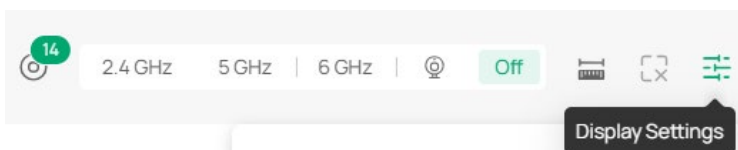
■ Take a Measurement

Click the Measure icon to enter the measurement page. Left-click to draw a line on the map, and the length of the line will be measured and displayed based on the scale you have set.

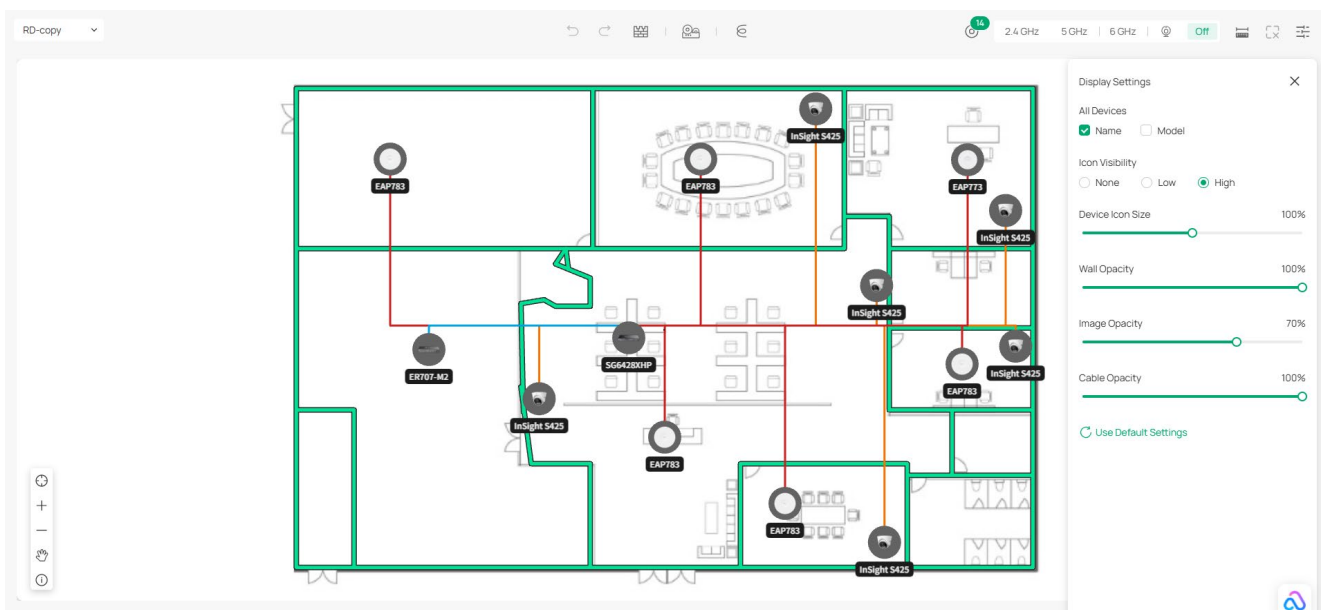


- View Display Settings

Click the Setting icon to view and modify display settings of the current floor.



You can select whether to display the name and model of the devices, set the device icon visibility and size, and adjust the opacity of the image, walls, and cables.



Walls

Walls are important to indicate the actual obstructions and help Omada Design Hub accurately predict signal propagation. You can draw the walls manually or take advantage of the AI tool to facilitate the process.

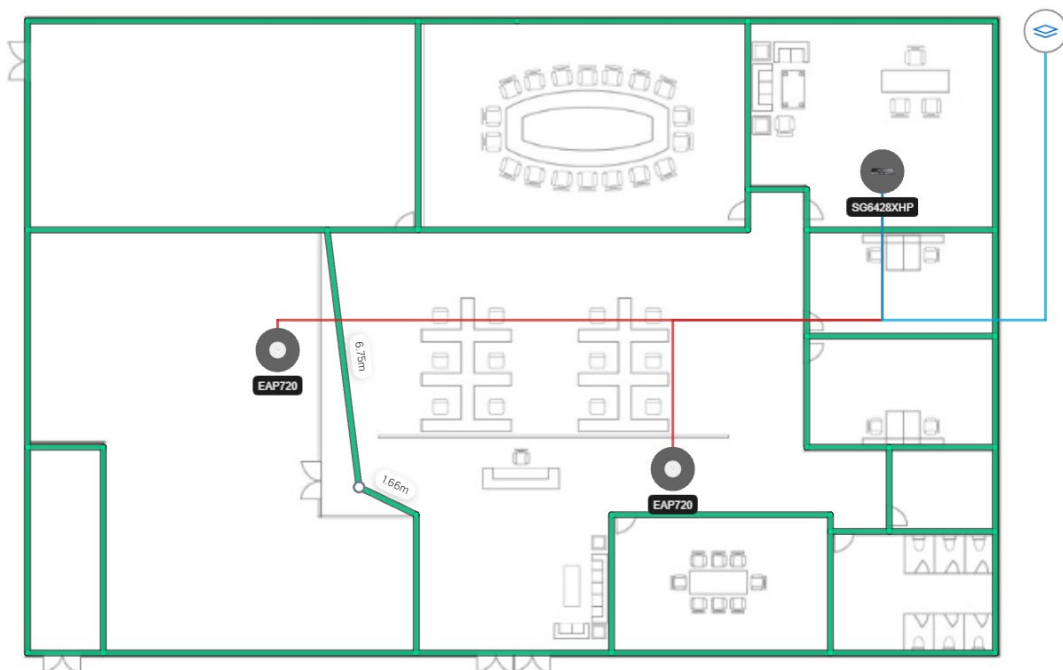
After drawing walls manually or automatically, you can edit the walls by moving, splitting, or deleting them or modifying their wall types.

Note:

The wall type panel automatically hides when you draw walls. You can move your mouse to the right to reveal the panel.

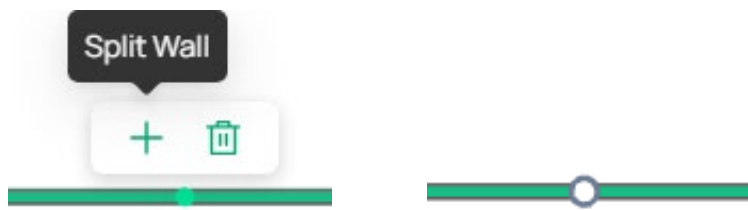
■ Move Walls

To move a wall, click and hold the node on the wall and drag it to the desired location.



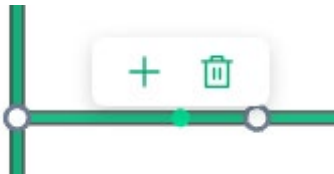
■ Split Walls

Click the wall you want to split and click **+**. A node will be added to where you click and the wall will be split into two at that node.



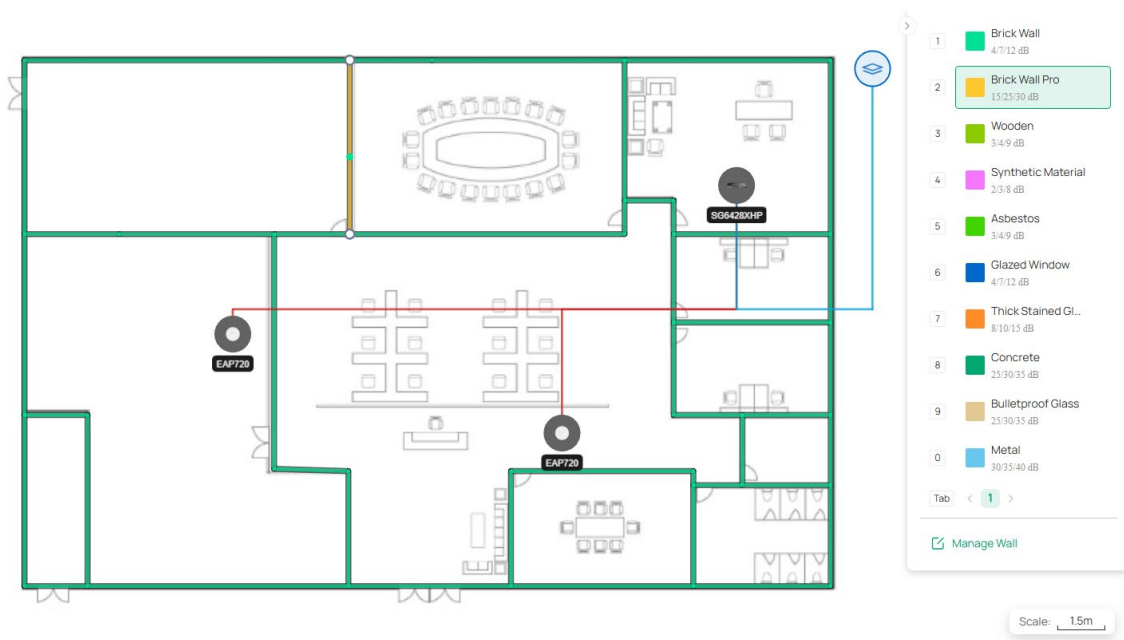
■ Delete Walls

Click the wall you want to delete and click . The wall between the two nodes will be deleted.



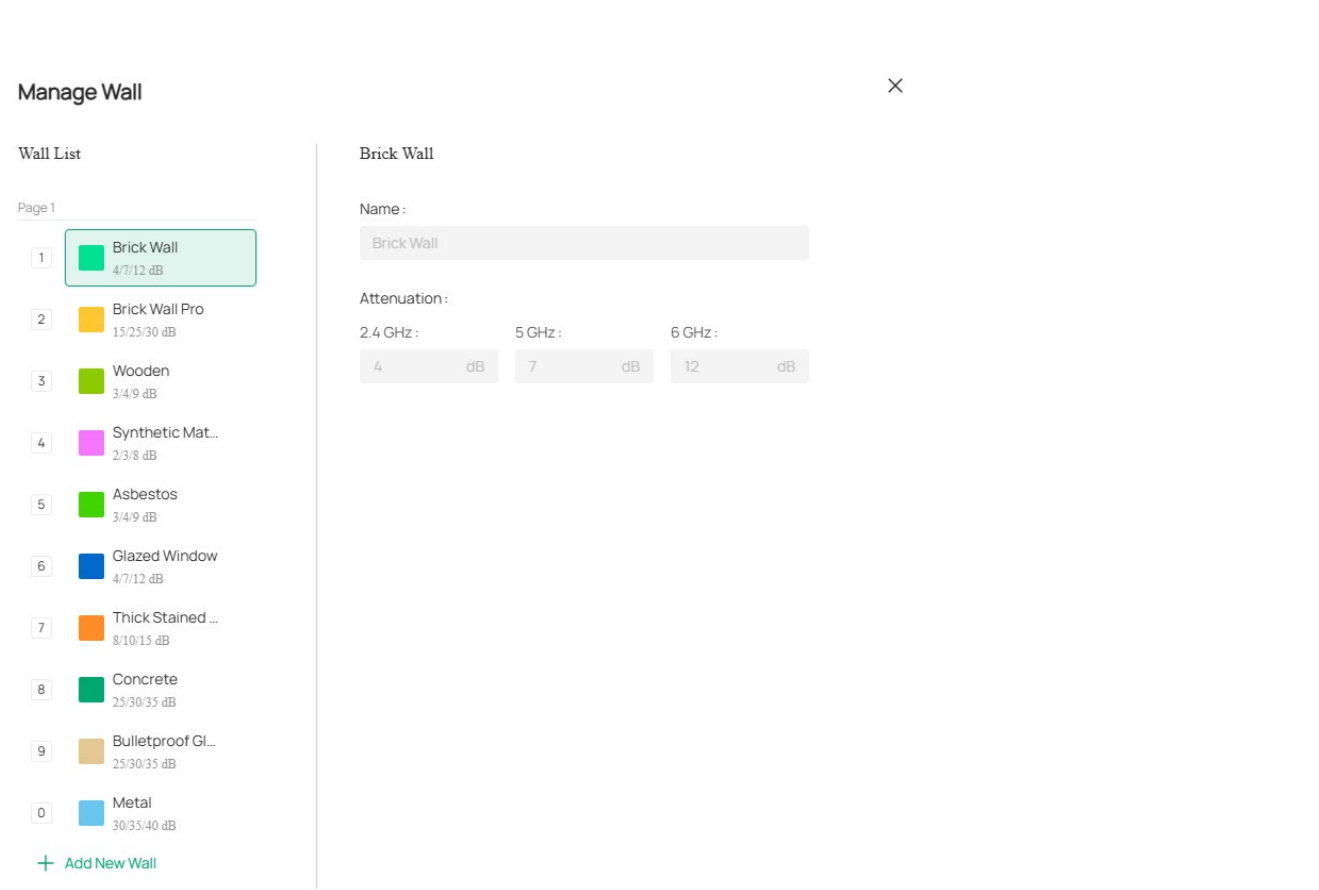
■ Change Wall Type

To change the wall type, click the wall and select the wall type on the right or press the corresponding number key.

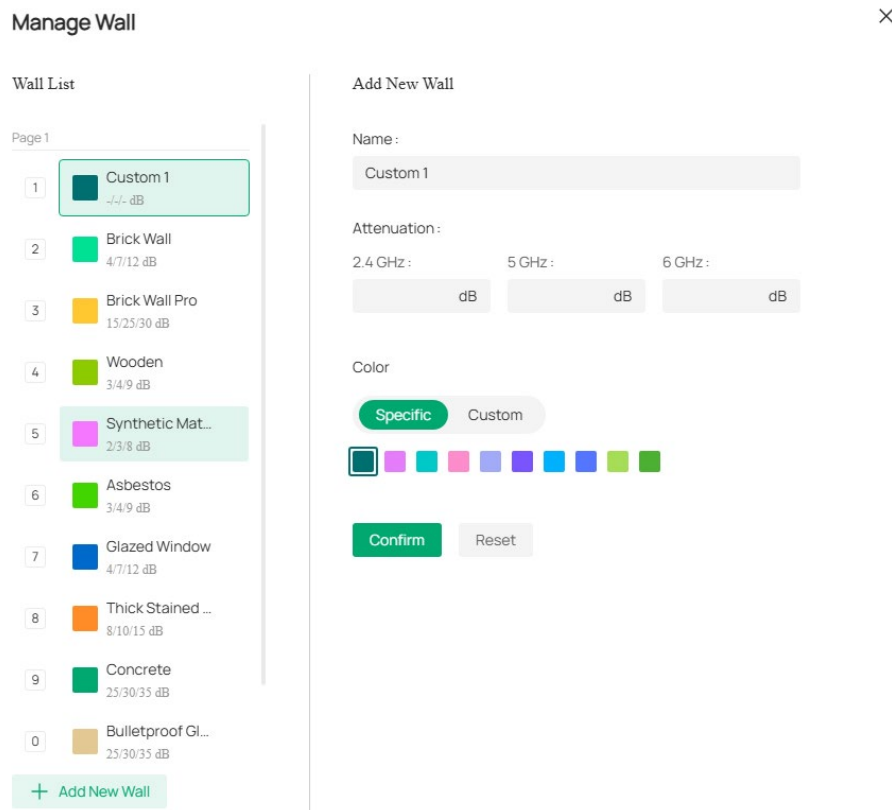


■ Manage Walls Types

Click **Manage Wall**, and you can check the name of the existing wall types and the attenuation value for each band.



If the existing walls do not meet your actual need, click **Add New Wall** to customize your wall name, attenuation values, and color.

**Note:**

The wall type modifications are project-specific.

Devices

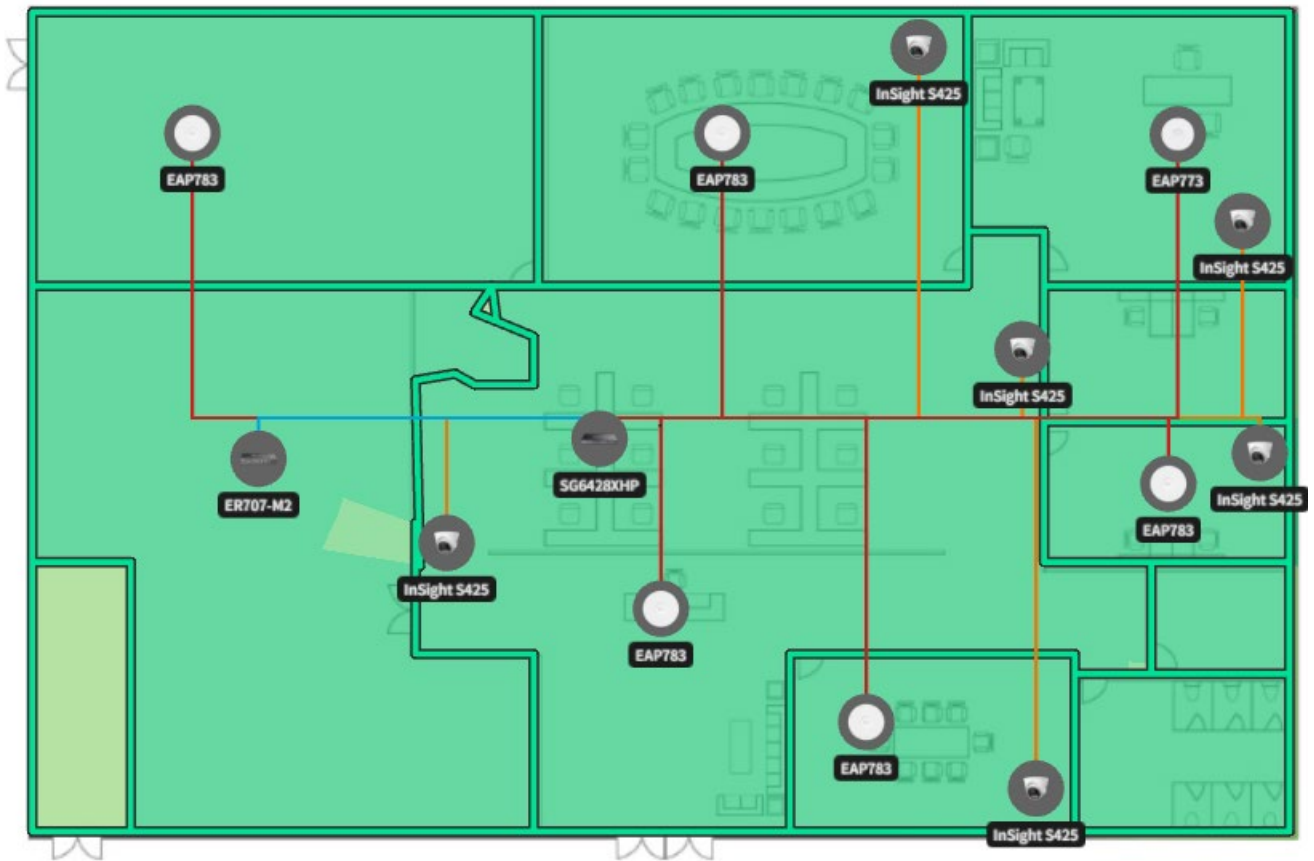
After deploying devices manually or automatically, you can move the device, check and edit the device settings, copy and delete the device, and view the device list of the current floor.

Note:

The device model panel automatically hides when you place devices. You can move your mouse to the right to reveal the panel.

■ Move Device

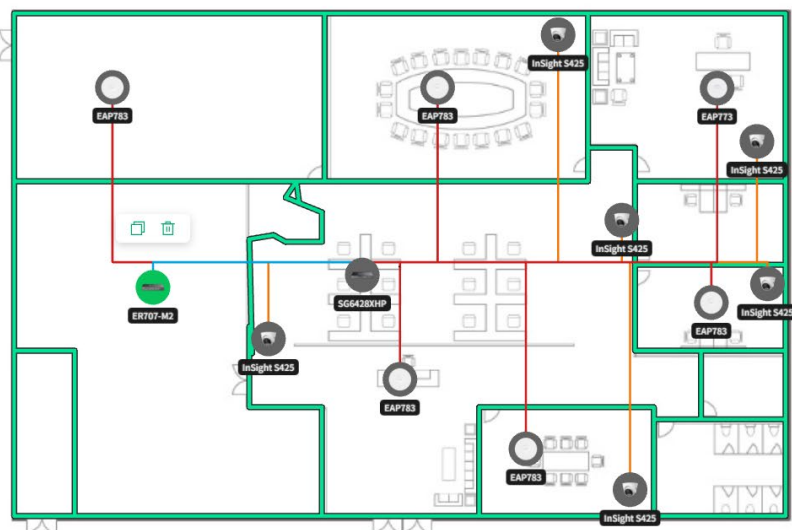
To move a device, click and hold it on the map and drag it to the desired location.



■ Edit Device

Click the device directly on the map to open the device's Basic Information page on the right.

For most gateways (including 5G gateways), switches, NVRs, OLTs, and controllers, you can modify the device name.



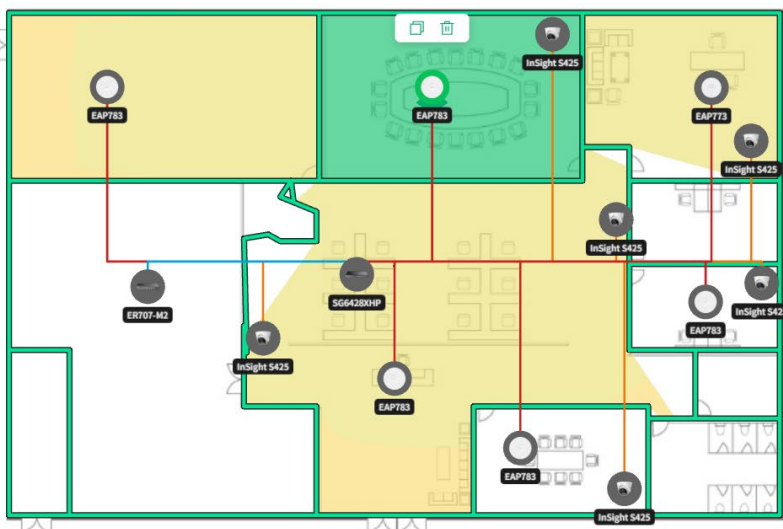
ER707-M2

6 WAN Ports | 2.5 Gbps RJ45

Name

ER707-M2

For EAPs, 4G gateways and Wi-Fi gateways, you can modify the device name, mounting method (for EAPs), the angle (for some EAPs), the installation height, and the channel and transmission power for each band.



EAP783

Wi-Fi 7 (802.11be) | 200 m²
260 Clients (Recommended) | BE22000
10 Gbps | Bluetooth
PoE Consumption: 39 W

Name

EAP783

Mounting

Ceiling

Height

3.0 m

Angle

270 °

Band	Channel	Transmission Power
2.4 GHz	1	20 dBm
5 GHz	36	23 dBm
6 GHz	33	23 dBm

Click  to open the Default Height Setting page and you can set the default installation height for different EAPs.

← Default Height Setting ×

The default height settings configured here will be applied to all devices and any modifications will be synchronized by default. You can set the installation height individually for each specific device.

Ceiling Height :

3.0

m

Client Height :

1.0

m

Wireless

Ceiling :

3.0

m

Wall :

2.1

m

Desktop :

0.8

m

Pole :

4.0

 m

Cameras

Ceiling :

3.0

m

Wall :

3.0

m

Pole :

3.0

m

Confirm

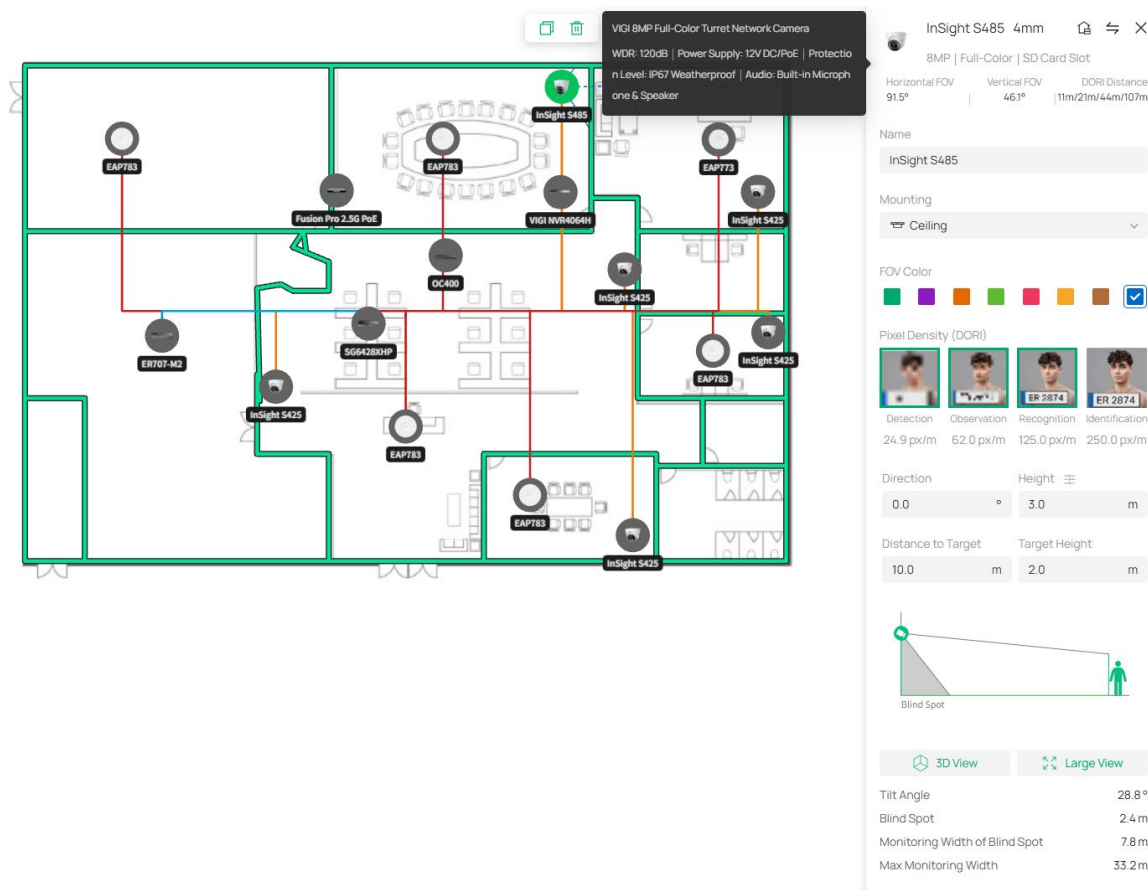
Cancel



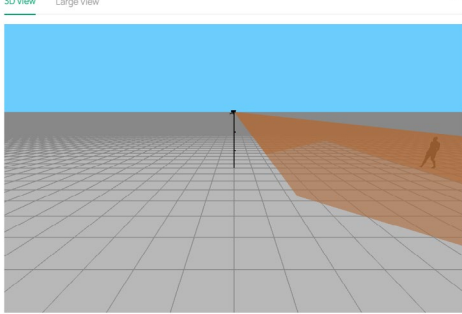
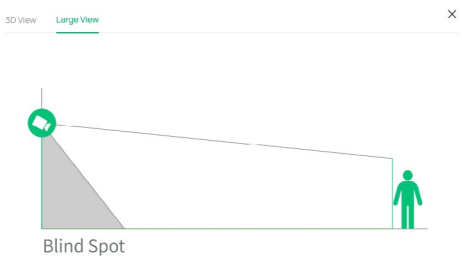
Note:

The default height settings configured here will be applied to all devices with the same installation method and any modifications will be synchronized by default. You can set the installation height individually for each specific device.

For Cameras, you can modify the device name, mounting method, FOV color, direction, the installation height, distance to target, and target height. The camera's tilt angle is determined by the installation height, target distance and target height.



Horizontal FOV	Displays the horizontal field of view of the camera (measured in degrees).
Vertical FOV	Displays the vertical field of view of the camera (measured in degrees).
DORI Distance	Defines the distance (in meters) at which the camera can detect, observe, recognize, and identify objects.
Name	Enter the name of the device.
Mounting	Select from the drop-down menu how the camera is physically set up.
FOV Color	Select a color from the available options for the field of view to be represented in the map.
Pixel Density (DORI)	It represents the pixel density for different detection ranges: Detection, Observation, Recognition, and Identification. Choose the appropriate pixel density based on the range requirements of the surveillance task.
Direction	Specify the camera's orientation.
Height	Set the height of the camera from the ground.
Distance to Target	Adjust the distance between the camera and the target object.
Target Height	Adjust the height of the object or area being monitored.

Tilt Angle	Change the vertical angle at which the camera is pointed.
Blind Spot	View the blind spot area in 3D view or in a large picture.
3D View	Click to view the 3D image.  A screenshot of the 3D View interface. It shows a top-down perspective of a tiled floor. A black line extends from a point on the floor towards the top center. To the right, there is a brown rectangular area with a small human figure icon inside it. The interface includes a tab bar at the top with '3D View' selected and 'Large View' next to it, and a close button 'X' in the top right corner.
Large View	Click to view the large image.  A screenshot of the Large View interface. It shows a diagram of a camera's field of view. A green camera icon is at the top left, with a line extending to a green human figure icon on the right. A grey shaded area at the bottom left is labeled 'Blind Spot'. The interface includes a tab bar at the top with '3D View' and 'Large View' (selected), and a close button 'X' in the top right corner.

Click  to open the Default Height Setting page and you can set the default installation height for different cameras.

← Default Height Setting ✕

The default height settings configured here will be applied to all devices and any modifications will be synchronized by default. You can set the installation height individually for each specific device.

Ceiling Height :

3.0

m

Client Height :

1.0

m

Wireless

Ceiling :

3.0

m

Wall :

2.1

m

Desktop :

0.8

m

Pole :

4.0

 m

Cameras

Ceiling :

3.0

m

Wall :

3.0

m

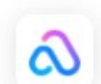
Pole :

3.0

m

Confirm

Cancel



Note:

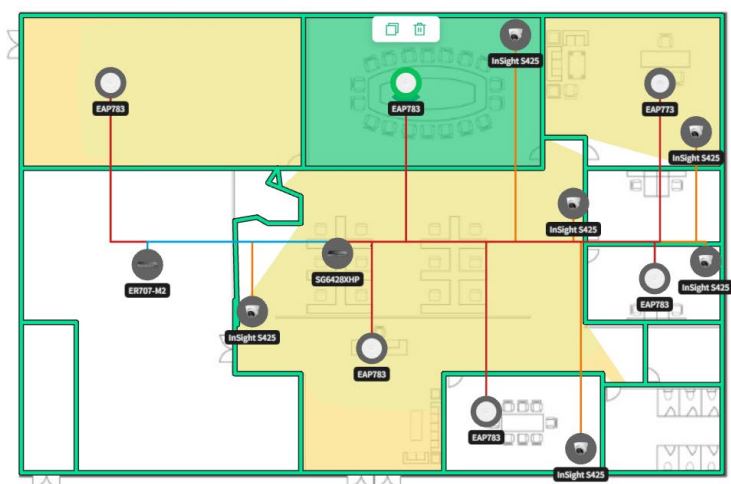
The default height settings configured here will be applied to all devices with the same installation method and any modifications will be synchronized by default. You can set the installation height individually for each specific device.

■ Visit the Device's Product Page

Click  (**Click to Website**) on the device's Basic Information page to go to the corresponding product page for more information on the device.

■ Replace Device

Click  **(Replace)** on the device's Basic Information page.



EAP783   

Wi-Fi 7 (802.11be) | 200 m²
260 Clients (Recommended) | BE22000
10 Gbps | Bluetooth
PoE Consumption: 39 W

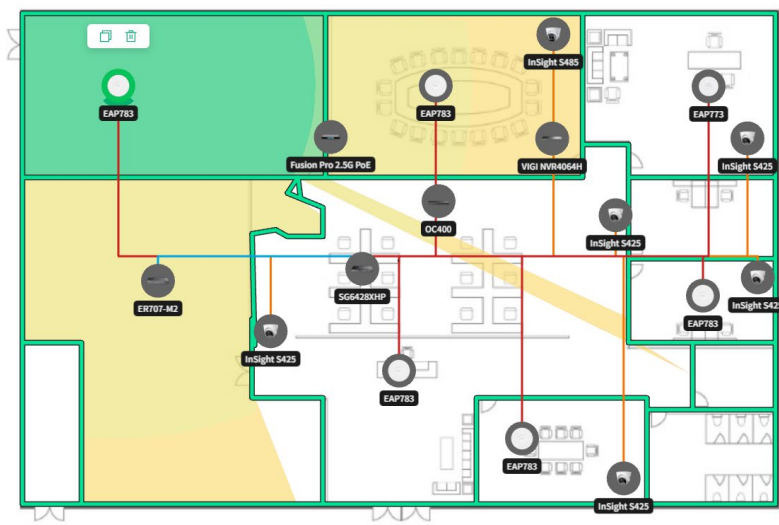
Name
EAP783

Mounting
Ceiling

Height 3.0 m Angle 270°

Band	Channel	Transmission Power
2.4 GHz	1	20 dBm
5 GHz	36	23 dBm
6 GHz	33	23 dBm

Select a different device model to replace the existing one.



Search by Model Name  

All Wall Plate Outdoor 

EAP787

Wi-Fi 7 (802.11be) | 160 m² | 220 Clients (Recommended) | BE12000 | 10 Gbps | Bluetooth
h | PoE Consumption: 26.3 W

EAP783

Wi-Fi 7 (802.11be) | 200 m² | 260 Clients (Recommended) | BE22000 | 10 Gbps | Bluetooth
h | PoE Consumption: 39 W

EAP773

Wi-Fi 7 (802.11be) | 140 m² | 210 Clients (Recommended) | BE9300 | 10 Gbps | Bluetooth
h | PoE Consumption: 24.05 W

EAP772

Wi-Fi 7 (802.11be) | 140 m² | 210 Clients (Recommended) | BE9300 | 2.5 Gbps | Bluetooth
h | PoE Consumption: 24.05 W

EAP770

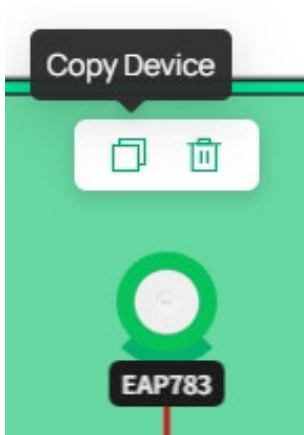
Wi-Fi 7 (802.11be) | 140 m² | 210 Clients (Recommended) | BE9300 | 2.5 Gbps | PoE Consumption: 24.05 W

EAP727

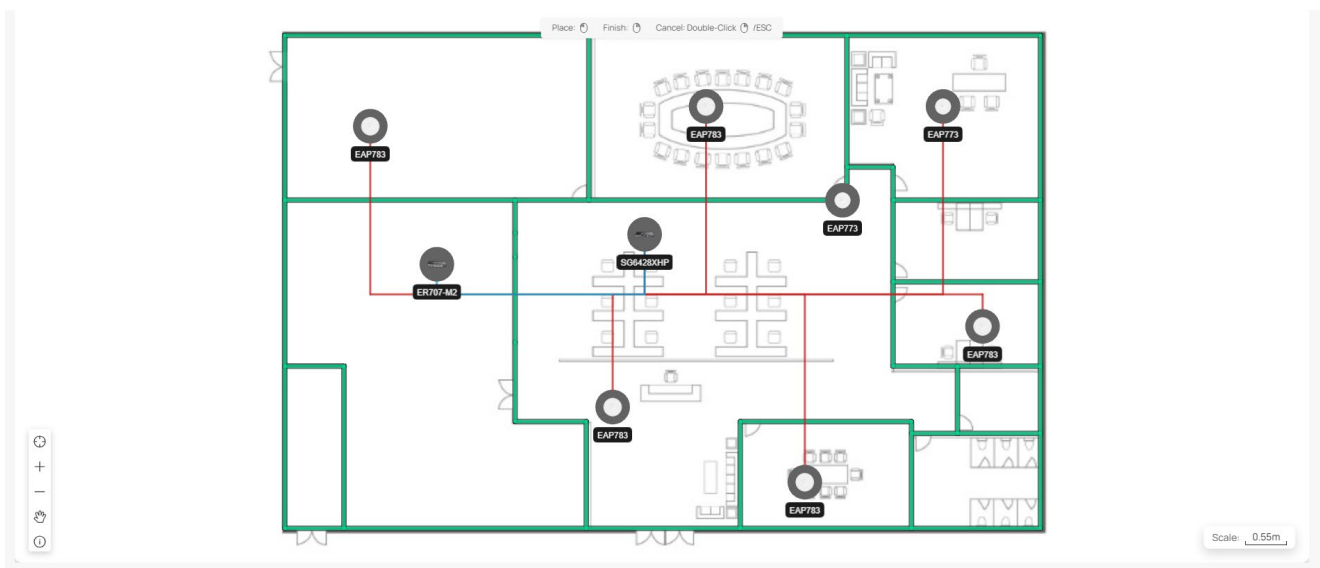
Wi-Fi 7 (802.11be) | 185 m² | 120 Clients (Recommended) | BE5000 | 2.5 Gbps | Bluetooth
h | PoE Consumption: 15.6 W

■ Copy Device

Click the device icon on the map and click the **Copy Device** icon.

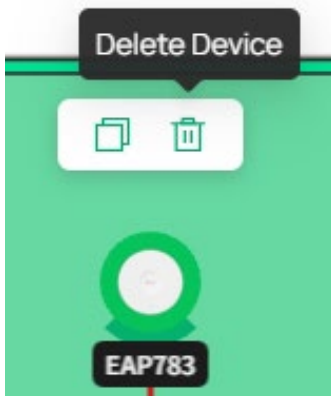


You can then place the device with the same configuration at the desired location.



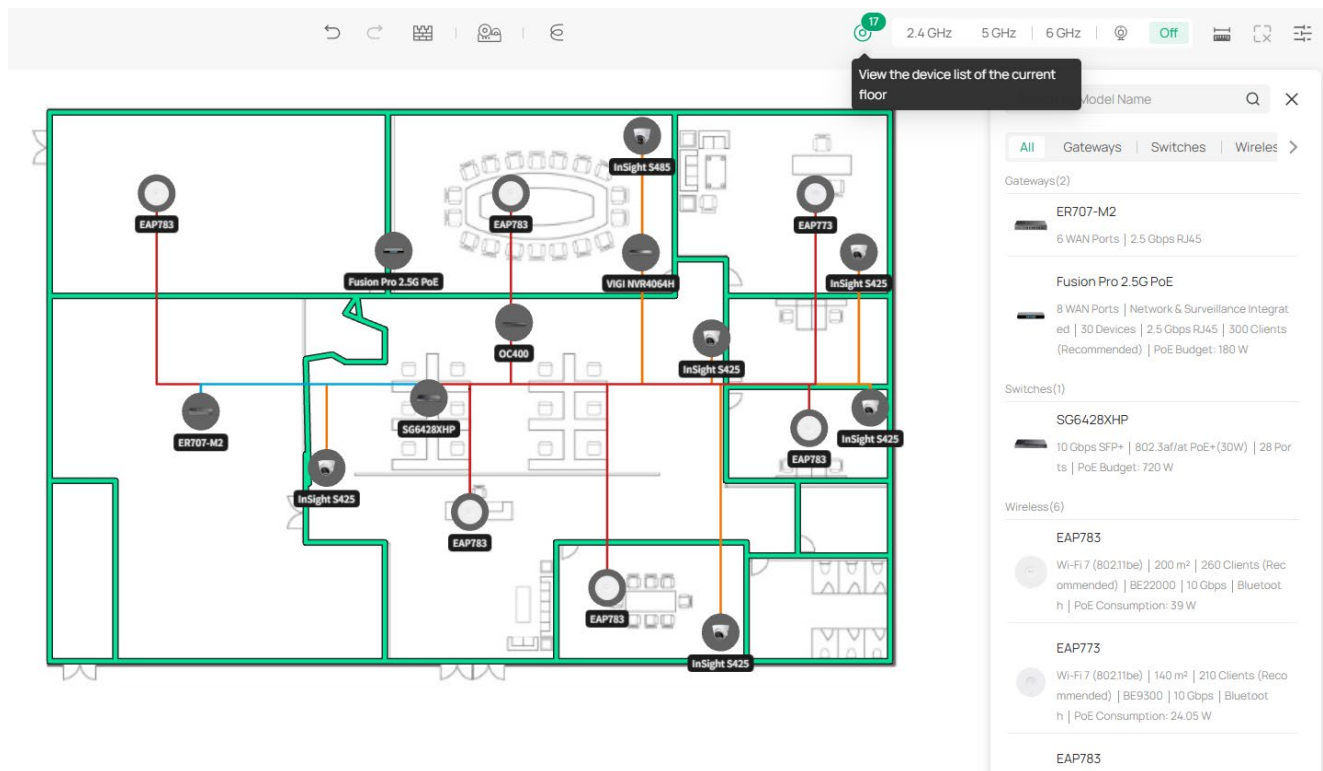
■ Delete Device

Click the device icon on the map and click the **Delete Device** icon.

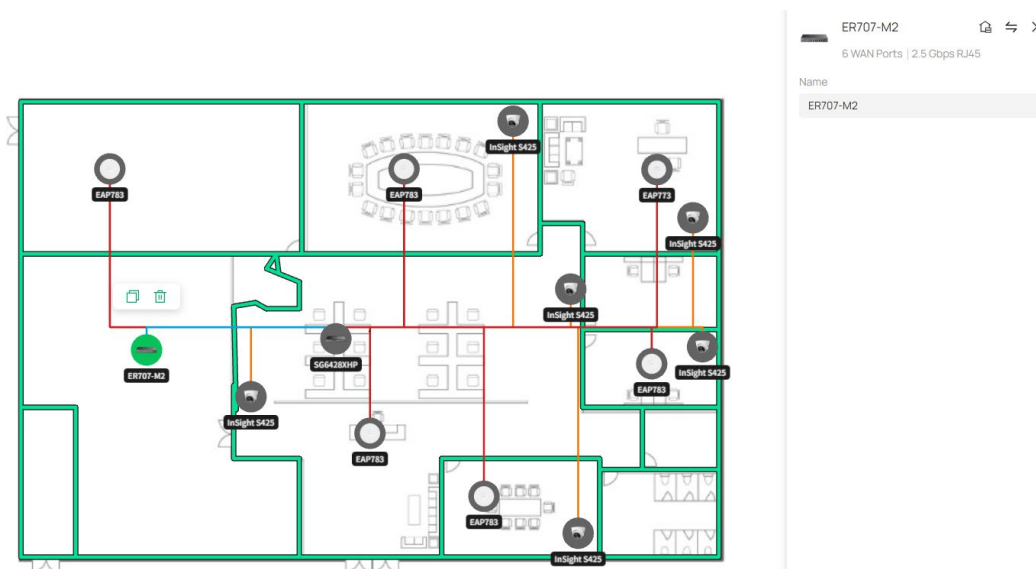


■ View Floor's Devices

Click  to view the device list of the current floor. You can search a specific device by model name or filter the devices via the filter tab.



Click a device on the device list, you can locate the device on the map, and check and edit its information.

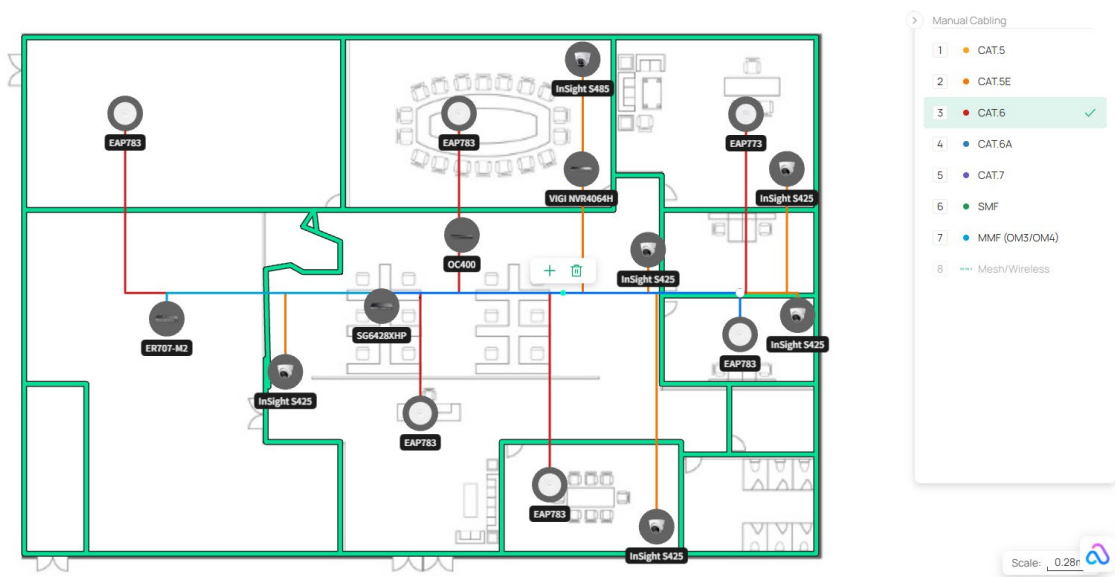


Cabling

After cabling, you can edit the cables by modifying the cable types, and moving or deleting the cables. Cabling assistance such as ELV risers and cable trays is also available to facilitate the cabling process.

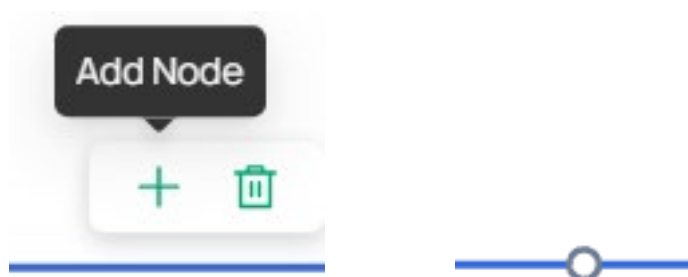
■ Modify Cable Type

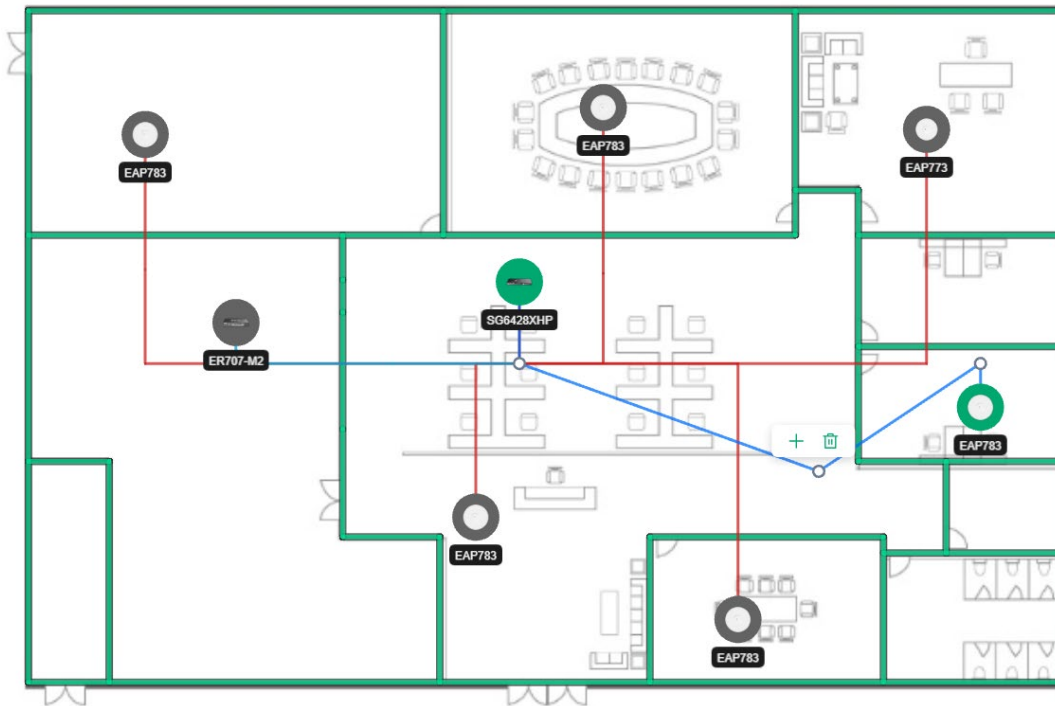
Click the cable you want to modify and select the cable type on the right. You can also press the corresponding number key on your keyboard to select the cable type.



■ Move Cables

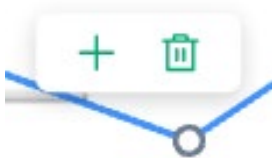
To adjust the cable routing path, click the cable and click **+** to add a node on the cable. The click and hold the node and drag it to the desired location.





■ Delete Cables

Click the cable you want to delete and click . The cable connecting two devices will be deleted.



■ Cabling Assistance

ELV risers and cable trays are available to help you route the cables.

ELV Riser

To connect cross-floor devices, deploy an ELV riser on each floor.

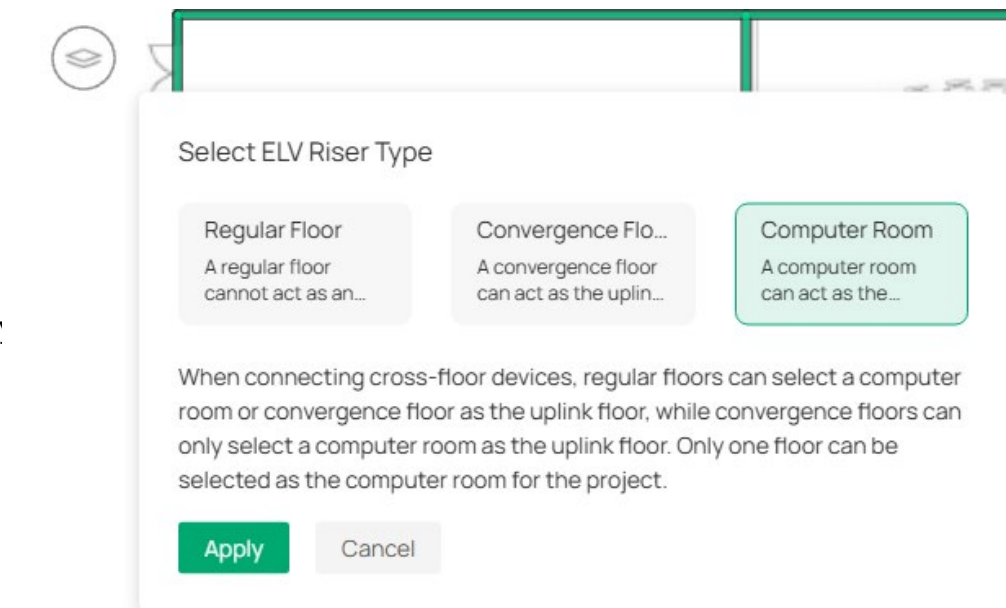
Note:

Devices on the current floor can be connected to devices on other floors through the riser.

Select the ELV riser type for the current floor.

Note:

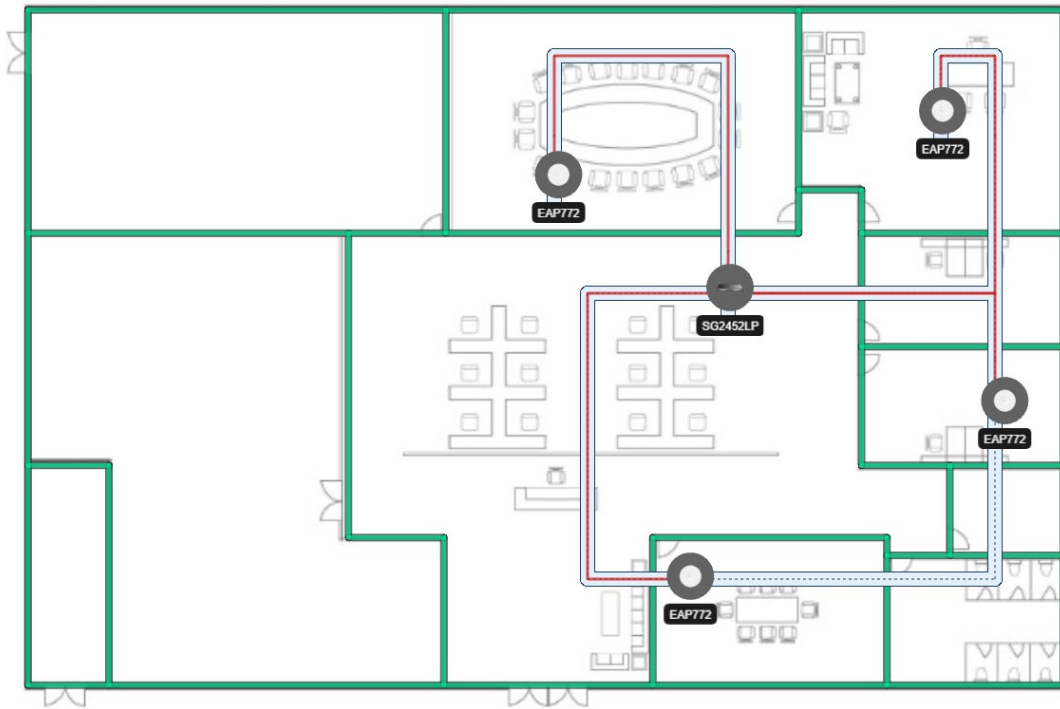
When connecting cross-floor devices, regular floors can select a computer room or convergence floor as the uplink floor, while convergence floors can only select a computer room as the uplink floor. Only one floor can be selected as the computer room for the project.



Regular Floor	A regular floor cannot act as an uplink floor.
Convergence Floor	A convergence floor can act as the uplink floor for regular floors.
Computer Room	A computer room can act as the uplink floor for all floors.

Cable Tray

Cable trays provide a structured cabling system to route and organize cables effectively. Draw the cable trays according to your actual environment, so that cables can be routed along the cable trays.

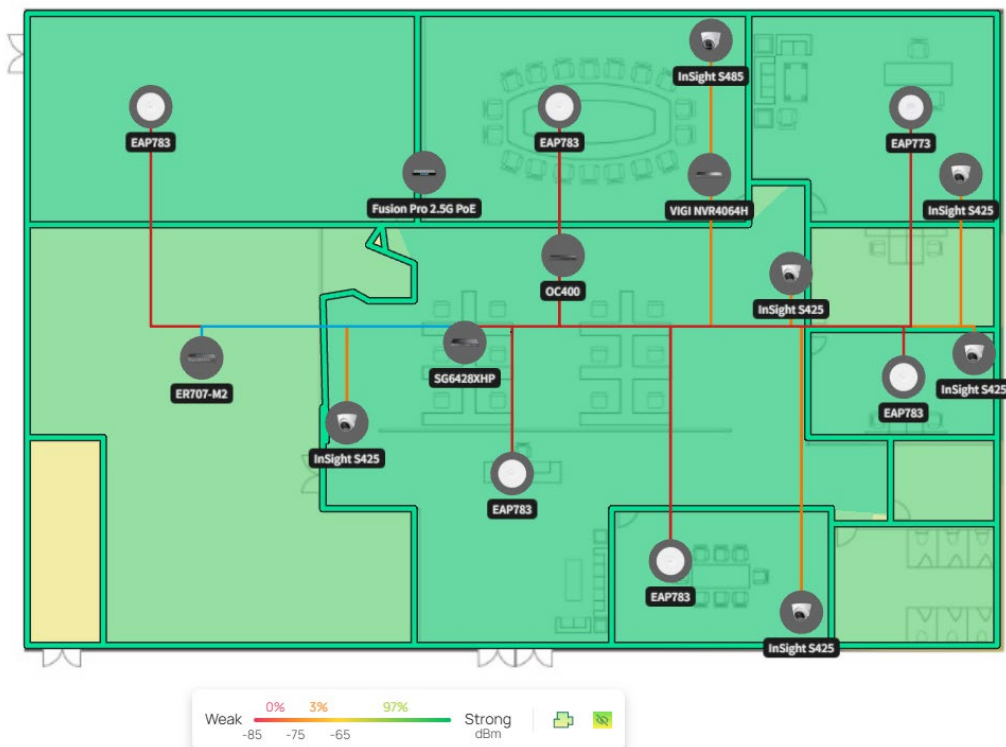


Simulation

After the network design, a Wi-Fi heatmap and monitoring coverage map can help simulate the wireless signal coverage and monitoring coverage and provide a visualized result.

■ Check Wi-Fi Simulation Result

Click **2.4 GHz / 5 GHz / 6 GHz** to check the simulation result in the corresponding frequency band and the monitoring coverage.

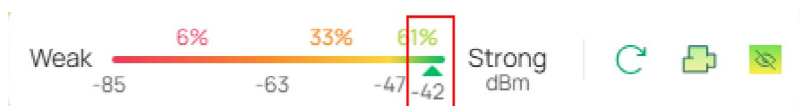


Note:

- When the simulation function is enabled, the heatmap will provide an instant simulation result when you modify the devices, walls, and frequency bands on the map, helping you optimize the network design in real time.
- Signal strength are represented by different colors (Green - Strong, Yellow - Medium, Red - Weak). You can drag the slider to adjust the signal strength color shown on the map. The percentages on the heatmap legend indicate how much area on the floor plan meets the corresponding threshold.

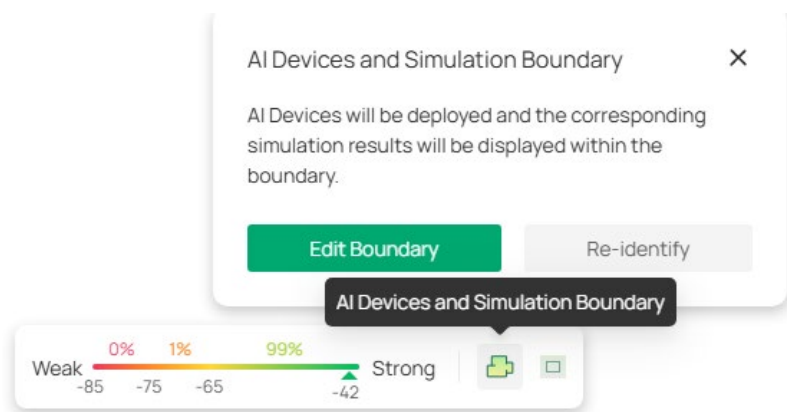


- When you hover your mouse over the map, the heatmap legend will show the signal strength at that specific point.

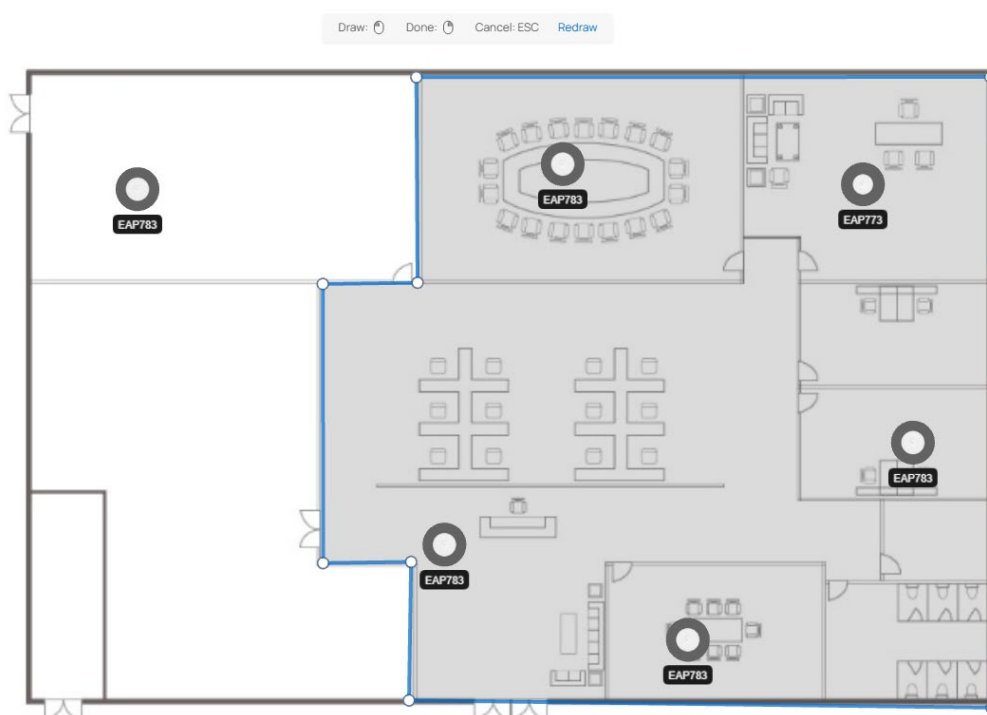


■ Edit Simulation Boundary

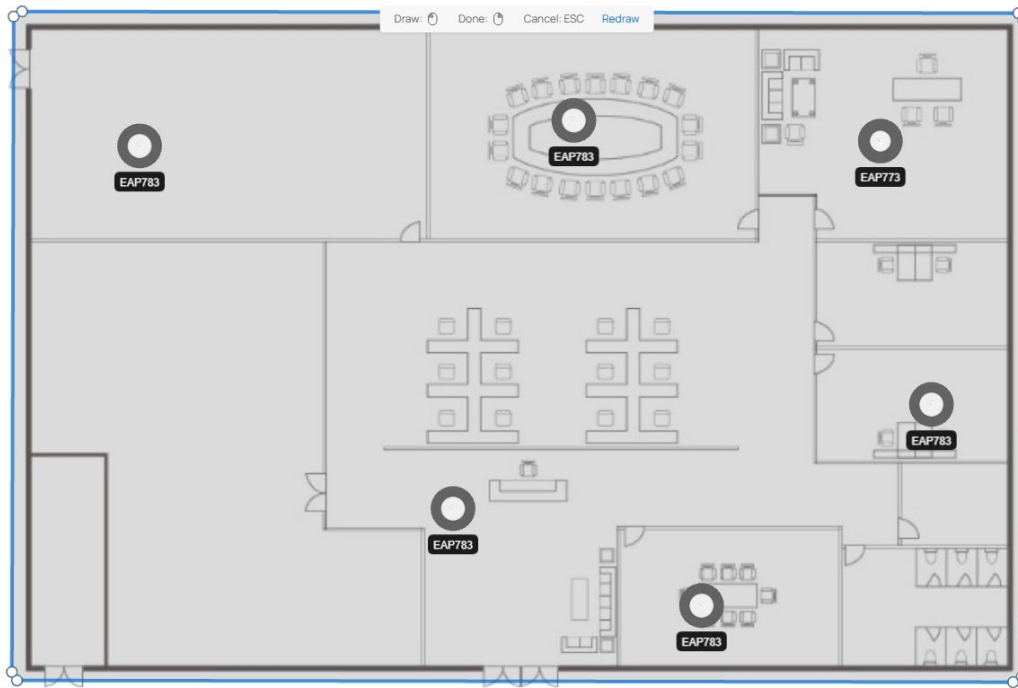
To modify the simulation area, click  .



Click **Edit Boundary** to designate the area manually.

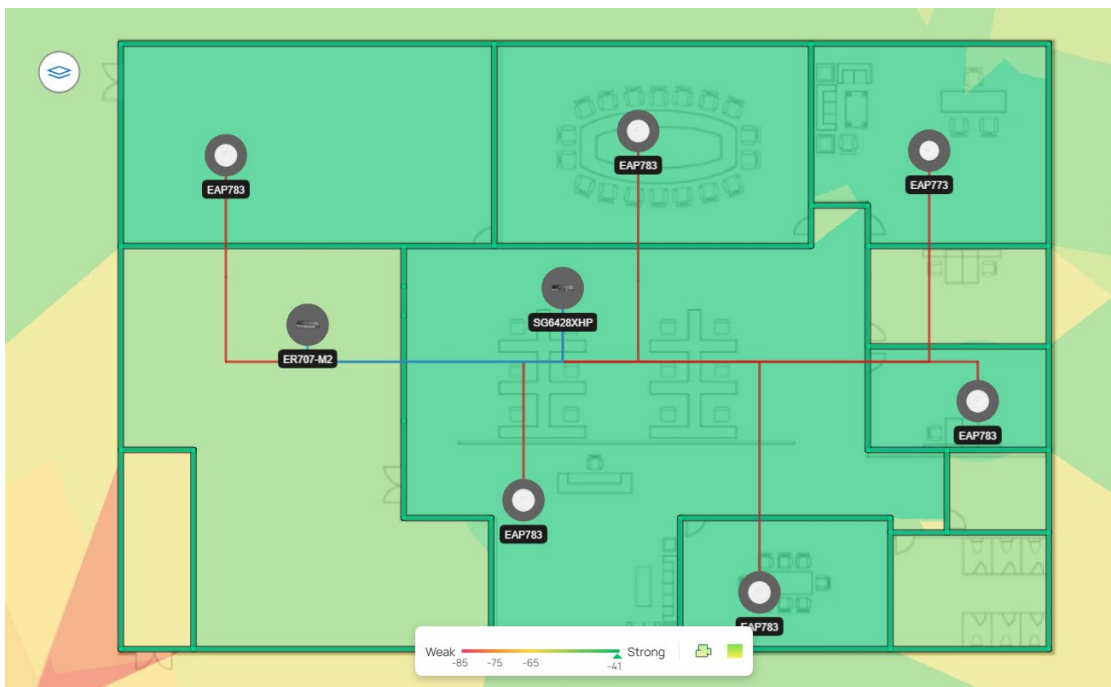


Click **Re-identify**, and the boundary will be automatically generated based on your map.

**Note:**

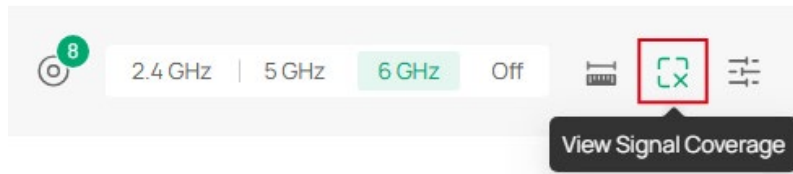
AI Devices will deploy EAPs and the corresponding simulation results will appear within the boundary.

Click  to show simulation results outside the boundary. Click  to hide simulation results outside the boundary.

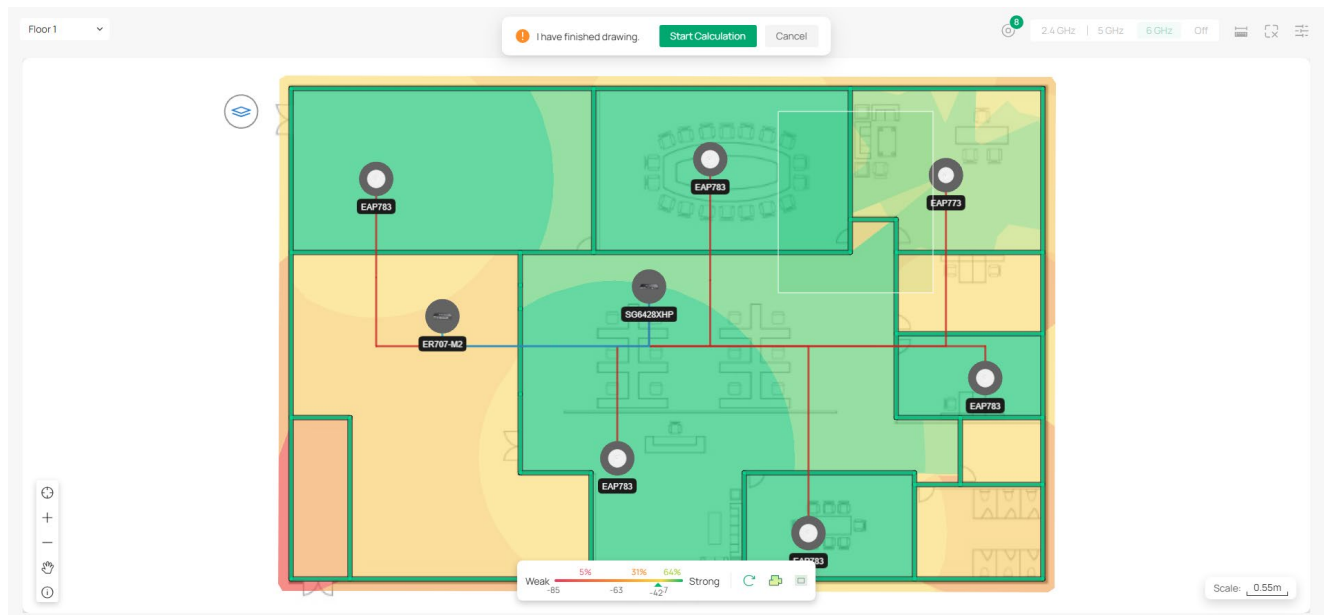


■ View Signal Coverage

To view the signal coverage of a specific area on the map, click  in the upper right.



Draw a rectangle to select the area, and click **Start Calculation**.

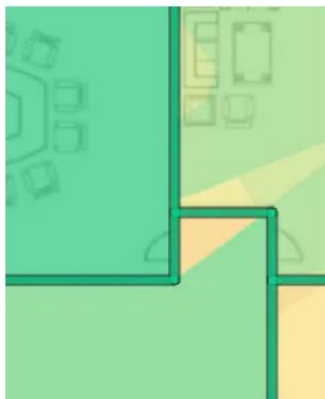


You will see the signal strength distribution within the selected area. The instant result can help you quickly evaluate the network coverage quality.

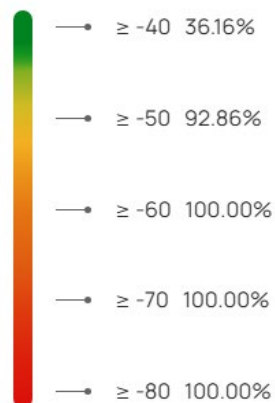
View Signal Coverage



Coverage 5.18 m²



Signal Strength/dBm



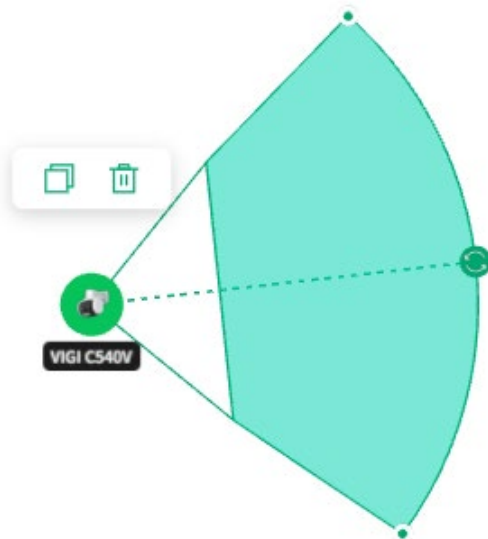
Continue

Cancel

■ Check Camera Surveillance Simulation Result

Click  to check the cameras' surveillance simulation results.

You can select a camera or click the simulation area to adjust the simulation results using any of the following methods:



- Click and drag the dashed line to adjust the orientation.
- Click and drag the  icon at the end of the dashed line to adjust the direction and monitoring coverage.
- For varifocal models, there are two dots on the sides of the fan-shaped area. You can drag and move the dots to adjust the focal length and coverage range.

Note:

The camera has a blind simulation area. If its initial blind area is too large, adjust the target height and distance to change the size of the blind area.