



Managing Meraki

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Managing Meraki

Using Cisco MSX Managed Devices services, operators can manage organizations (attach, edit, or delete) and create networks comprising Meraki devices and services. An organization implies Meraki networks managed by one or more accounts. For deploying a Meraki solution, it is essential to consider an organizational structure that will use this solution. It is recommended to have one organization per customer or one organization per service. For more information on when to use multiple organizations, see the section, 'Building a Scalable Meraki Solution' in [Cisco Meraki](#) documentation.

The following are the Meraki wireless and combined device types currently supported on Cisco MSX:

- **MX -Security and SD-WAN:** The Meraki MX is an enterprise security & also equipped with SD-WAN capabilities that enable administrators to maximize network resiliency and bandwidth efficiency. The following are the MX devices supported on MSX.
 - MX64, MX65, MX67, and MX68 required for a small branch setup
 - MX84 and MX100 required for a medium branch setup
 - MX250 and MX450 required for a large branch/campus setup
 - vMX device types for virtual devices
- **MR- Wireless LAN:** [MR device types](#) for cloud-managed WLAN access points.
- **MS - Switches:** [MS device types](#) are cloud-managed access and aggregation switches series of access switches. Using these switches, thousands of switch ports can be configured and monitored instantly, over the web.

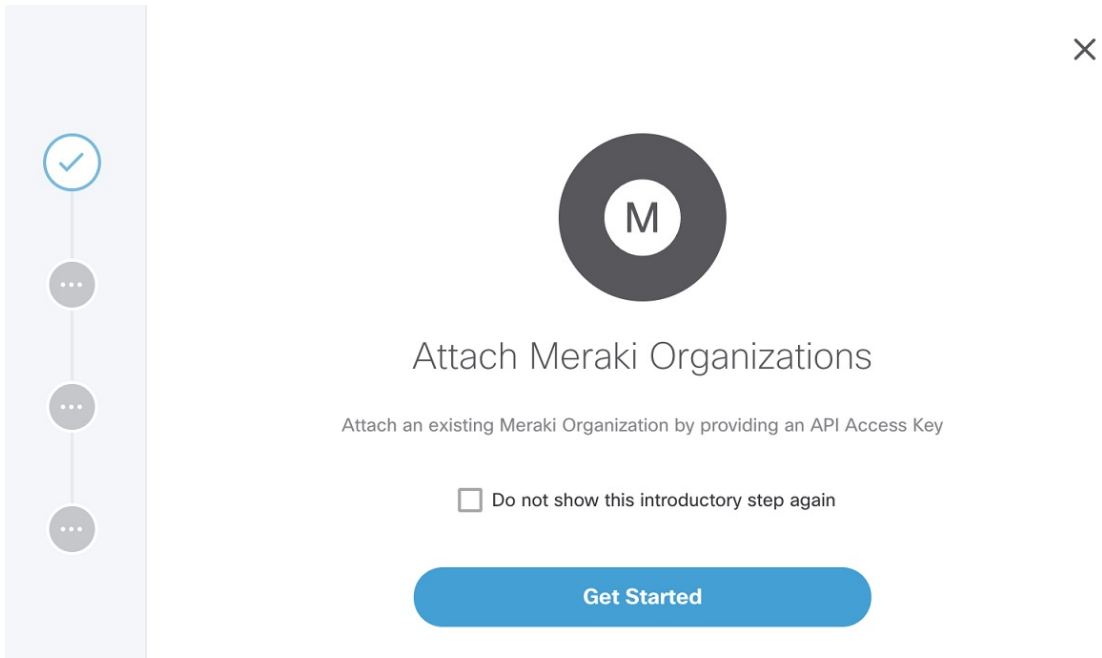
Attaching Organizations

You can associate one or more organizations to the tenant's control plane. Organization implies a collection of networks that are part of a single organizational entity. These networks, in turn, can have multiple devices.

To attach organizations in MSX:

Procedure

- Step 1** Log in to the Cisco MSX portal using your credential.
- Step 2** From the left pane, choose **Tenant Workspace > Settings > Meraki Organizations**.
The **Meraki Organization** page is displayed.
- Step 3** Click **Attach Organizations**.
The Attach Meraki Organizations dialog box is displayed.

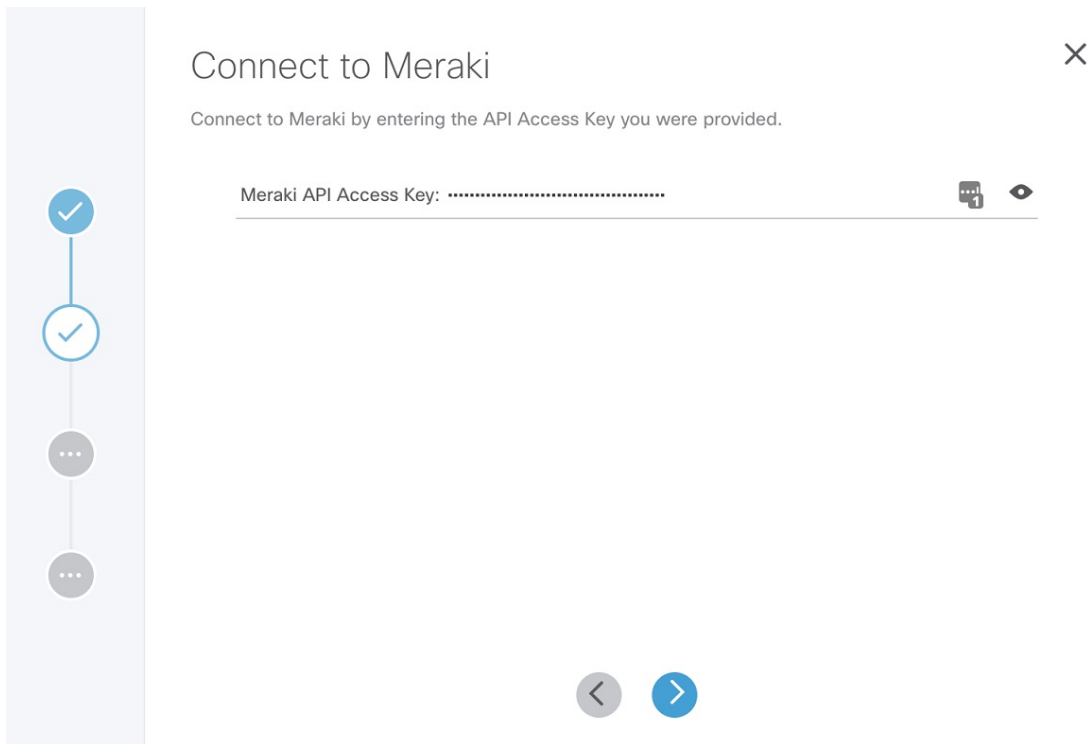


Step 4 Click **Get Started**.

Step 5 Enter the Meraki API Access Key on the **Connect to Meraki** page.

Use the eye icon to view and validate the API key.

Note You can get the Meraki access key by logging in to the Meraki dashboard. Click **User > My Profile > Generate New API Access Key** to generate a new key.



Step 6 Click > to move to the next page.

Step 7 On the **Select Meraki Organization** page, select up to five organizations to attach to your Meraki control plane. The drop-down lists the available organizations for the access key you had provided in the previous step. In case you want to attach more than five organizations, you can do so at the end of this process by selecting **Attach Another Organization** option.

Step 8 Click > to move to the next window and initiate the attaching process. You can close the window or click **Attach Another Organization** to add more organizations to the control plane.

All the organizations added to the tenant's control plane is displayed in **Tenant Workspace > Settings > Meraki Organizations**.

Editing or Detaching Organizations

To edit or detach an attached organization in MSX:

Procedure

Step 1 Log in to the Cisco MSX portal using your credential.

Step 2 From the left pane, choose **Tenant Workspace > Settings > Meraki Organizations**.

The **Meraki Organization** page is displayed with the list of organizations that were added to the tenant's control plane.

Step 3 Select a row and click on the ellipsis (...) and choose **Edit Access Key** to edit the Organization details that were provided while attaching the organization to your tenant's control plane.

Meraki Organizations

STATUS	ORGANIZATION NAME	ORGANIZATION ID	LAST SYNC
● Sync Failed	NYC QUEENS 2	634444597505821823	...
● Sync Failed	NYC QUEENS 1	634444597505821822	...
● Sync Failed	NYC BRONX 1	634444597505821820	...
● Sync Failed	NYC BRONX 2	634444597505821821	...

Step 4 On the **Edit Access Key** dialog box, click **Meraki API Access Key** field to clear the previous key and enter a new key and click **Save**. Click **Cancel** to retain the old

Edit Access Key

API Access Key has been previously saved. Once the current key is clicked on, it will be cleared and a new one can be entered. Review your organization(s) after changing the user key.

Meraki API Access Key:



Cancel **Save**

key.

Detaching Organizations:

If you want to detach or disassociate an organization from a tenants control plane, click on the ellipsis (...) and choose **Detach**.

Meraki Organizations

STATUS	ORGANIZATION NAME	ORGANIZATION ID	LAST SYNC
● Sync Failed	NYC QUEENS 2	634444597505821823	...
● Sync Failed	NYC QUEENS 1	634444597505821822	...
● Sync Failed	NYC BRONX 1	634444597505821820	...
● Sync Failed	NYC BRONX 2	634444597505821821	...

Creating Networks

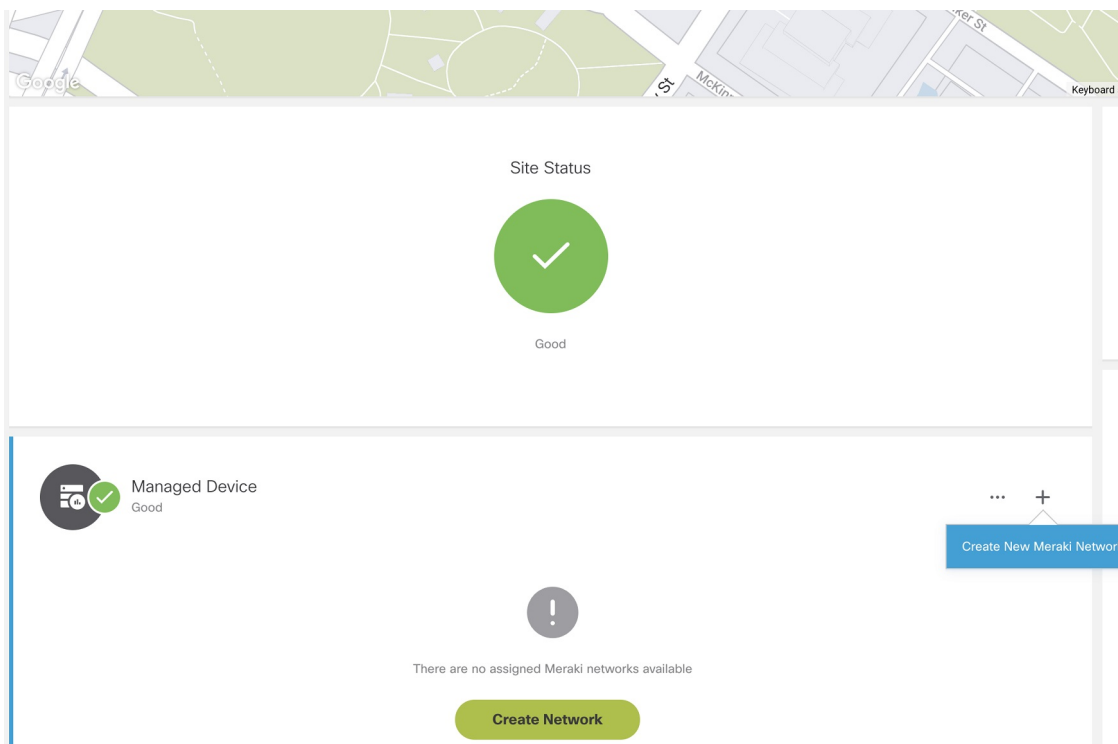
A network is a logical container of multiple devices that can be created for a site and can be a combination of devices.

Before you begin

Make sure you have an organization attached within MSX. For more information, see [Attaching Organizations](#).

Procedure

- Step 1** Log in to the Cisco MSX portal.
- Step 2** From the left pane, choose **Tenant Workspace > Sites**.
The list of sites associated with a tenant is displayed.
- Step 3** Select any one of the sites to view the detailed site status.
This page lists all the site metrics along with status of the selected site.
- Step 4** Under the **Managed Device** section on the page, click + > **Create New Meraki Networks** to associate a new network to the selected site.



The **Create New Meraki Network** wizard is displayed to set up networks to manage multiple devices.

- Step 5** Click **Get Started**.
The **Meraki Network Information** dialog box is displayed.

Step 6

Enter the following details on the **Meraki Network Information** page.

- **Network name:** Specify a name for your new network.
- **Organization:** Choose the organization that you want to associate your network to from the drop-down list.
- **Meraki Network Tags:** This field displays all the tags currently available in Meraki. You can also add new tags. Type a new tag and click on the **Add New** option that appears as you type a new tag to save the new tag.

Meraki Network Information

Select a logical Meraki Organization for your new network. Organizations are treated independently with its own licensing, inventory, users, and configurations. The optional network tags are Meraki specific and can help group and identify networks.

Network Name:* United Co

Organization:* NYC MANHATTAN 1

MERAKE NETWORK TAGS

02 X geo

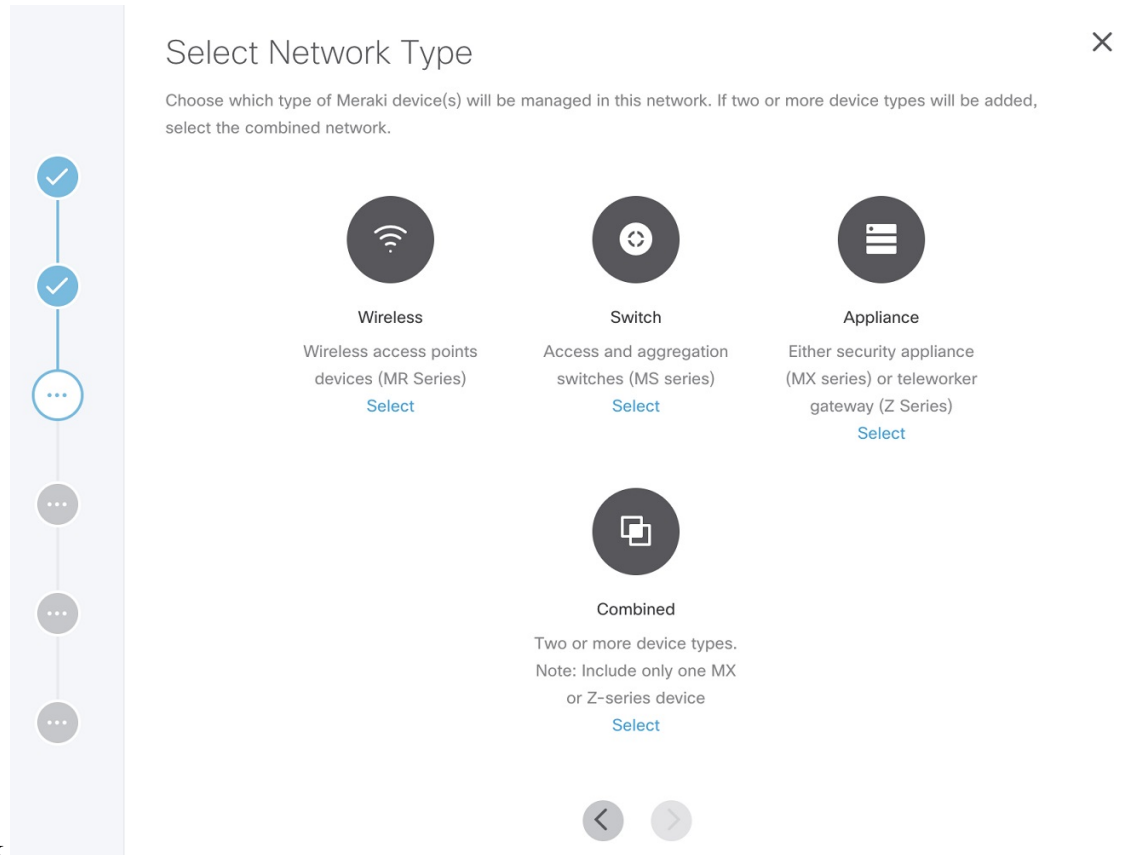
Add new: geo

Step 7

Click > to move to the **Select Network Type** page.

Step 8

In the **Select Network Type** page, choose the type of Meraki devices (Wireless, Switch, Appliance) that will be managed in this new network. Choose the **Combined** option to add different device types to your



network.

Step 9

Click > to move to the **Select Initial Configuration for Network** page.

Step 10

Set up a network. Choose from one of the following options to setup the network configurations:

- **No Configurations:** Create a network without any template configurations, but later you can attach a configuration template to this network.
- **Clone from Network:** Create a network with configuration settings copied from an existing network to a new network. On the **Select Meraki Network to Clone** page, select a network from the list of available networks from where the configuration settings must be copied. The network list shown depends on the network type you chose in Step 8. The network list can be narrowed down by searching with specific tags in the **Meraki Network Tags** field. After cloning, any configuration changes made to the source network are not inherited into the new network.
- **Clone from Template:** Create a network with configuration copied from an existing template into a new network. On the **Select Meraki Template to Clone** page, select the template from the **Template Name** drop-down list from where the configuration must be copied. The options shown in the drop-down depends on the network type you chose in Step 8. After cloning, any configuration changes made to the source network are not inherited into the new network.
- **Attach to Template:** Create a network and then associate it to an existing template. On the **Select Meraki Template to Attach** page, select a template from the **Template Name** drop-down list to which the network can be attached. The options shown in the drop-down depends on the network type you chose in Step 8. If you use this option, any changes in the source template are automatically applied to all the associated networks.

Select Initial Configuration for Network ✕

Start with an initial configuration for your new network. Select from options below.

No Configuration

Create network with no configurations. You can attach a configuration template to the network later.

[Select](#)

Clone from Network

Create with configuration settings copied from an existing network.

[Select](#)

Clone from Template

Create with configuration settings copied from an existing template.

[Select](#)

Attach to Template

Create and configure by attaching to an existing template. Changes made to the template will be applied to the network automatically.

[Select](#)

< >

- Step 11** Click > to move to the **Review and Submit** page.
- Step 12** Review the details and click **Submit** to complete the process.

Viewing Meraki Networks for a Site

Cisco MSX Managed Device service pack provides the capability to monitor the site status and the networks associated to the sites.

To view the site details:

Procedure

- Step 1** Log in to the Cisco MSX portal.
- Step 2** From the left pane, choose **Tenant Workspace > Sites**.
The list of sites associated with a tenant is displayed.
- Step 3** Select any one of the sites to view the detailed site status.

This page lists all the site metrics along with status of the selected site.

Under the **Managed Device** section of the page, you can view the list of Meraki network assigned to this site.

Assigning Meraki Network to a Site

In the following cases, you may want to attach a Meraki Network to a site:

- When a control plane is attached, and you want to plot network to different site locations.
- When a site is deleted, the network gets unmapped, and you want to associate this network with a site.

To attach a network to a site, use the POST API : /merkai/api/v1/controlplanes/{controlPlaneID}/network/site/assign.

For more information on these APIs, refer to the Swagger documentation that can be accessed from **MSX portal > Account Settings > Swagger > Meraki Service API**.

Synchronizing Networks and its Devices

In MSX, you can synchroninze Meraki details into MSX at:

- Organization-level: Use the **Sync with Meraki** option in **Tenant > Setting > Organization** to sync all networks and devices available within an Organization.
- Network-level: Using the APIs in the **Meraki-Control-Plane-Controller** section of **Merakiservice** APIs, you can do the following:
 - Synchronize only a list of networks and the devices in the network. Provide the list of network IDs for which the synchronization needs to be performed. Use the POST /merkai/api/v1/controlplanes/{controlPlaneID}/synchronize for the synchronization.
 - Schedule a sychronization task



Note Only users with Meraki Synchronization (Manage) permission under Meraki Service section can perform the sychronization within MSX.

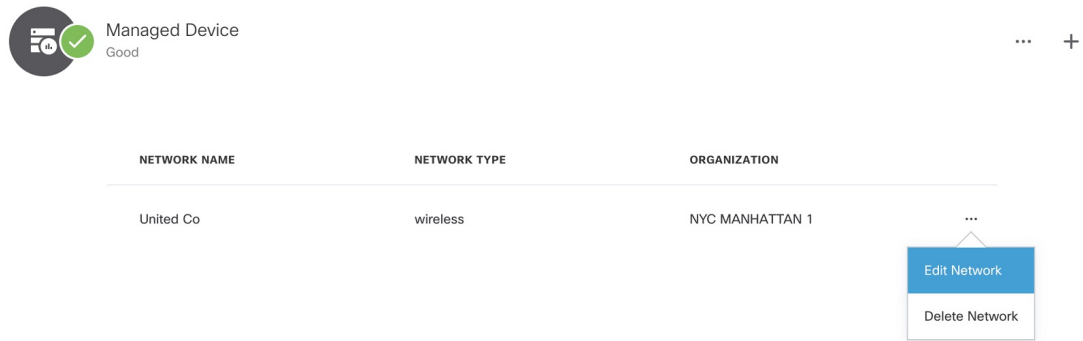
For more information on these APIs, refer the Swagger documentation that can be accessed from **MSX portal > Account Settings > Swagger > Meraki Service API**.

Editing or Deleting a Network

To edit and delete a Meraki network:

Procedure

- Step 1** Log in to the Cisco MSX portal.
- Step 2** From the left pane, choose **Tenant Workspace > Sites**.
The list of sites associated with a tenant is displayed.
- Step 3** Select any one of the sites to view the detailed site status.
This page lists all the site metrics along with status of the selected site.
Under the **Managed Device** section of the page, you can view the list of Meraki network assigned to this site.
- Step 4** Select a network, and click on the ellipsis (...) and select **Edit Network** to edit the network details. You can add or edit the existing network tags, and also change template for a network using the **Edit Meraki Network** dialog



box.

Edit Meraki Network

Meraki Network Name: United Co

Network Type: wireless

Organization: NYC MANHATTAN 1

Meraki Network Tags: 02 x geo x

NETWORK CONFIGURATION

Template Name: No Configuration

Cancel Save

Deleting the Network:

Click on the ellipsis (...) and select **Delete** to delete the selected network.



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