Configure Ethernet Ports of Cisco Business Wireless Access Point in Mesh Mode

Objective

The objective of this document is to show you how to configure the Ethernet ports of a Cisco Business Wireless (CBW) Access Point (AP) in Mesh mode.

Applicable Devices | Firmware Version

- 140AC (Data Sheet) | 10.4.1.0 (Download latest)
- 141ACM (Data Sheet) | 10.4.1.0 (Download latest)
- 142ACM (Data Sheet) | 10.4.1.0 (Download latest)
- 143ACM (Data Sheet) | 10.4.1.0 (Download latest)
- 145AC (Data Sheet) | 10.4.1.0 (Download latest)
- 240AC (Data Sheet) | 10.4.1.0 (Download latest)

Introduction

If you are looking to configure the Ethernet ports of your CBW AP, you have come to the right place! The CBW APs support the latest 802.11ac Wave 2 standard for higher performance, greater access, and higher-density networks. They deliver industry-leading performance with highly secure and reliable wireless connections, for a robust, mobile end-user experience.

Port setting configuration sets direction of data transmission and flow control of the data. Ethernet interfaces can be configured either as access ports or trunk ports. Trunks carry the traffic of multiple VLANs over a single link and allow you to extend VLANs across the network.

If you are ready to configure the Ethernet ports of your CBW AP, let’s get started!

Modifying AP Port Configuration to Access/Trunk Mode

Beginner Help

This toggled section highlights tips for beginners.

Logging In

Log into the Web User Interface (UI) of the Master AP. To do this, open a web browser and enter https://ciscobusiness.cisco. You may receive a warning before proceeding. Enter your credentials.You can

also access the Master AP by entering https://[ipaddress] (of the Master AP) into a web browser.

Tool Tips

If you have questions about a field in the user interface, check for a tool tip that looks like the following:

Trouble locating the Expand Main Menu icon?

Navigate to the menu on the left-hand side of the screen, if you don’t see the menu button, click this icon to



open the side-bar menu.

Cisco Business App

These devices have companion apps that share some management features with the web user interface. Not all features in the Web user interface will be available in the App.

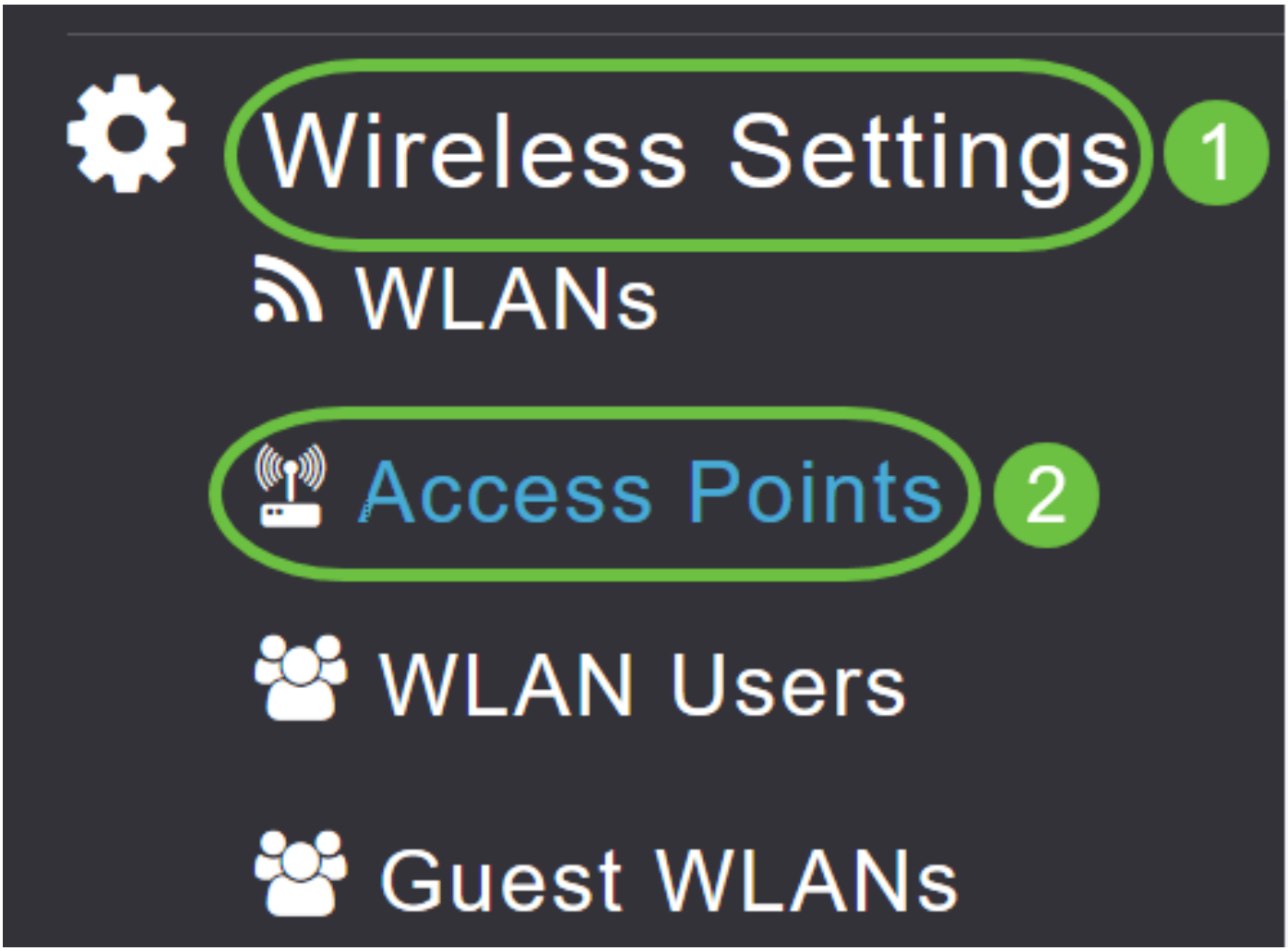
Download iOS App Download Android App

Frequently Asked Questions

If you still have unanswered questions, you can check our frequently asked questions document. FAQ

Step 1

Go to **Wireless Settings > Access Points**.

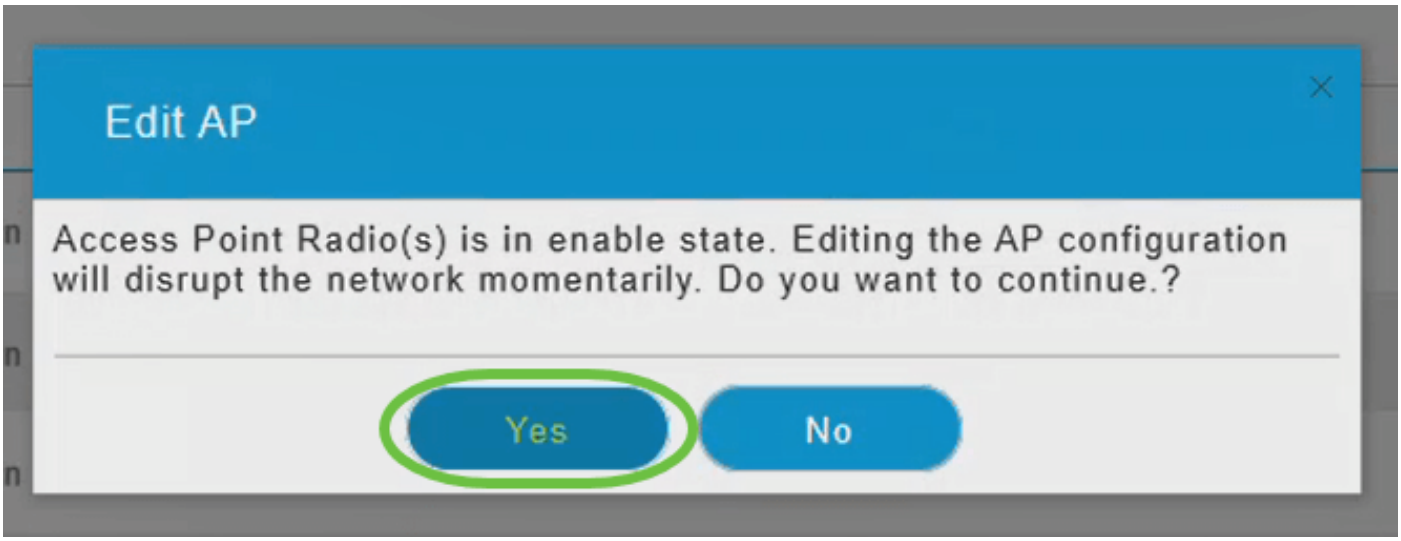


Step 2

Click *Edit* icon of the AP that you want to configure.

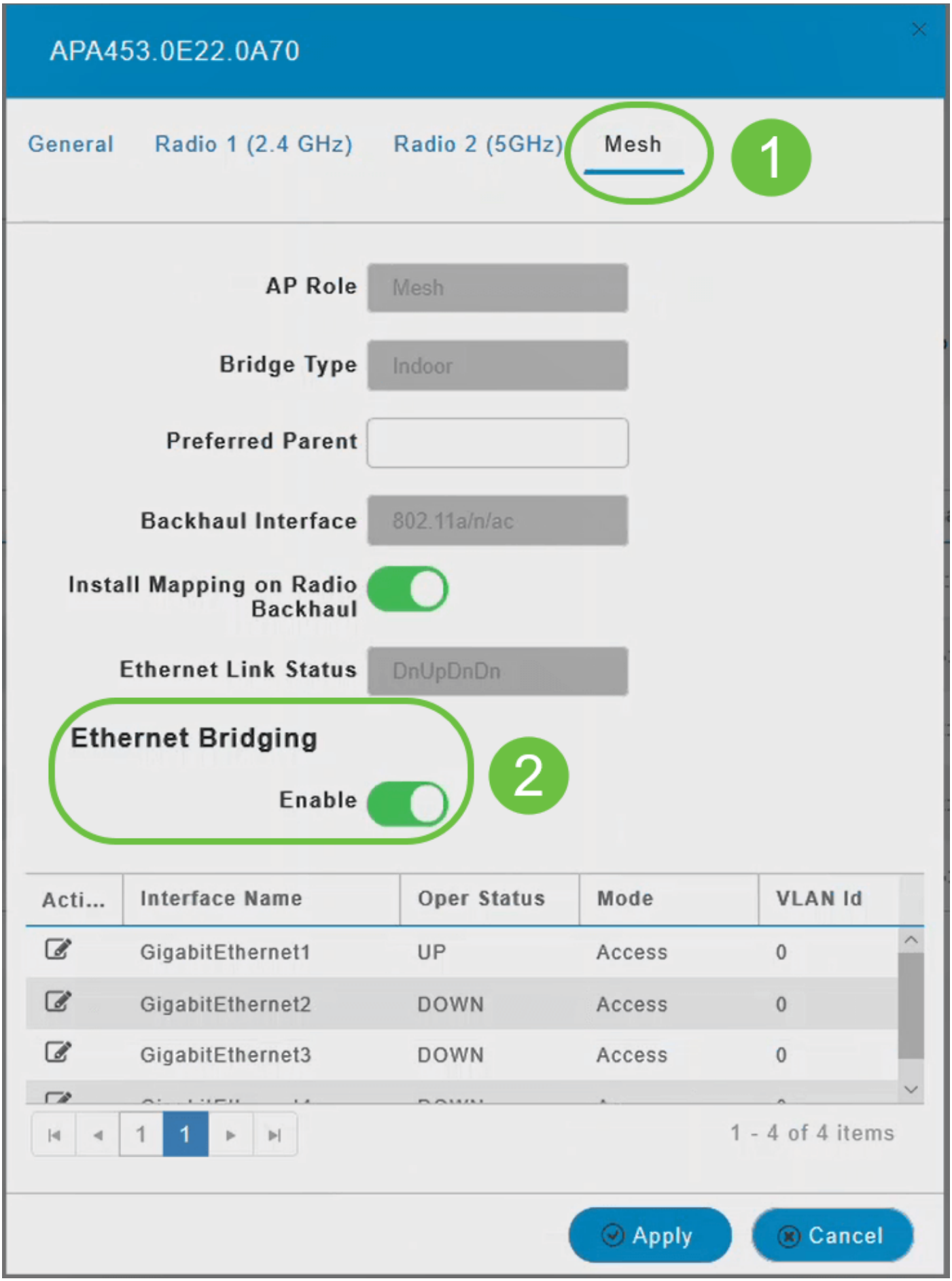


You will see the following pop-up window. Click **Yes** to continue.



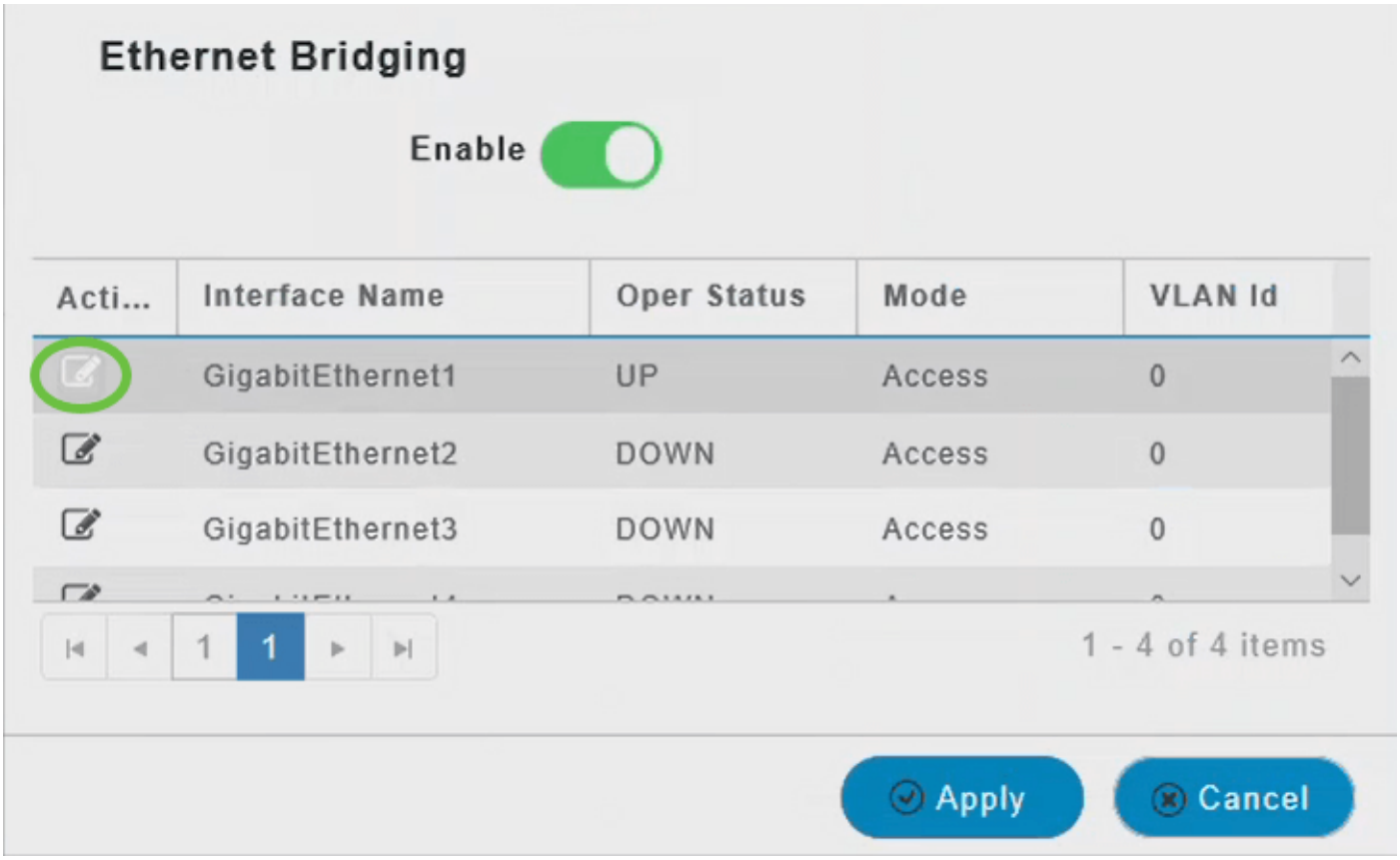
Step 3

In the new pop-up window, navigate to the *Mesh* tab. Ensure that *Ethernet Bridging* is **enabled**.


APA453.0E22.0A70
General
Radio 1 (2.4 GHz)
Radio 2 (5GHz)
Mesh
1
AP Role
Mesh
Bridge Type
Indoor
Preferred Parent
Backhaul Interface
802.11a/n/ac
Install Mapping on Radio Backhaul
Ethernet Link Status
DnUpDnDn
Ethernet Bridging
Enable
2
Acti...
Interface Name
Oper Status
Mode
VLAN Id
GigabitEthernet1
UP
Access
0
GigabitEthernet2
DOWN
Access
0
GigabitEthernet3
DOWN
Access
0
1
1
1 - 4 of 4 items
Apply
Cancel

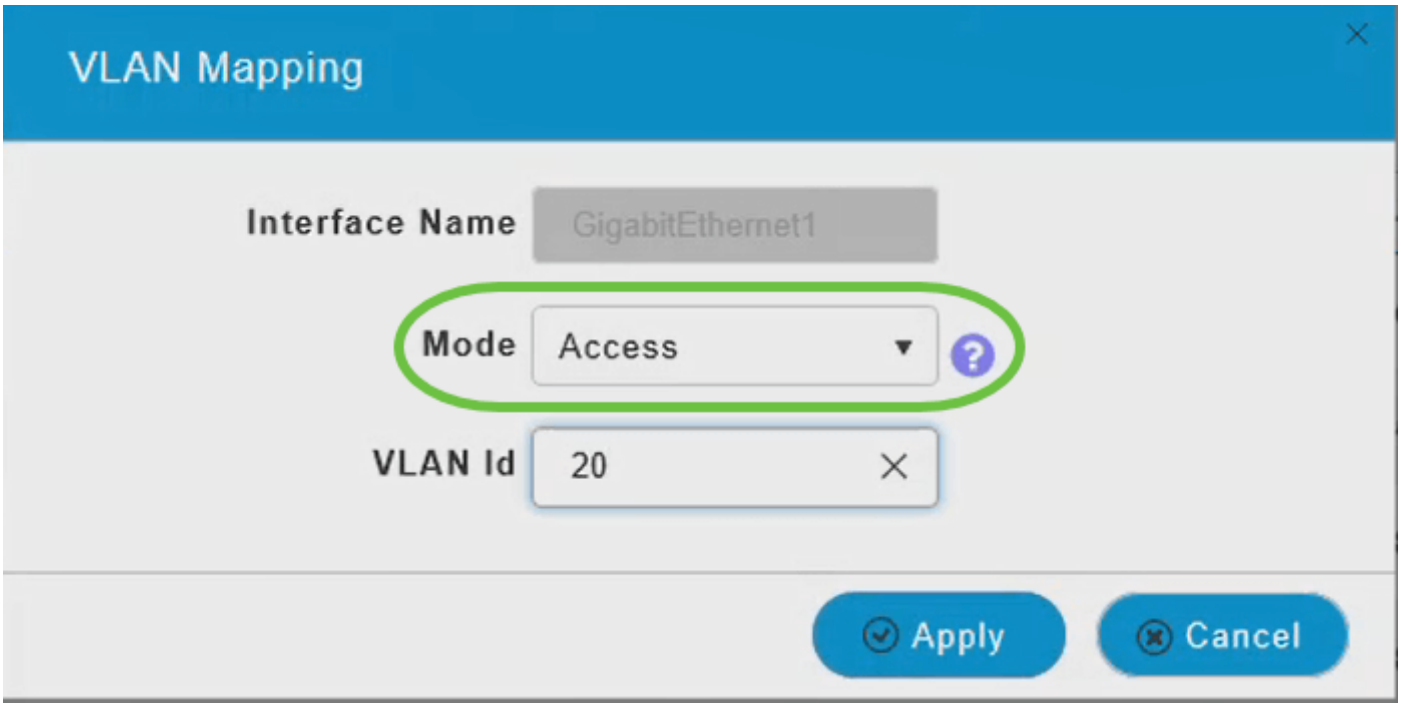
Step 4

Click *Edit* in the *Port table*. This is available when *Ethernet Bridging* is enabled.



Step 5

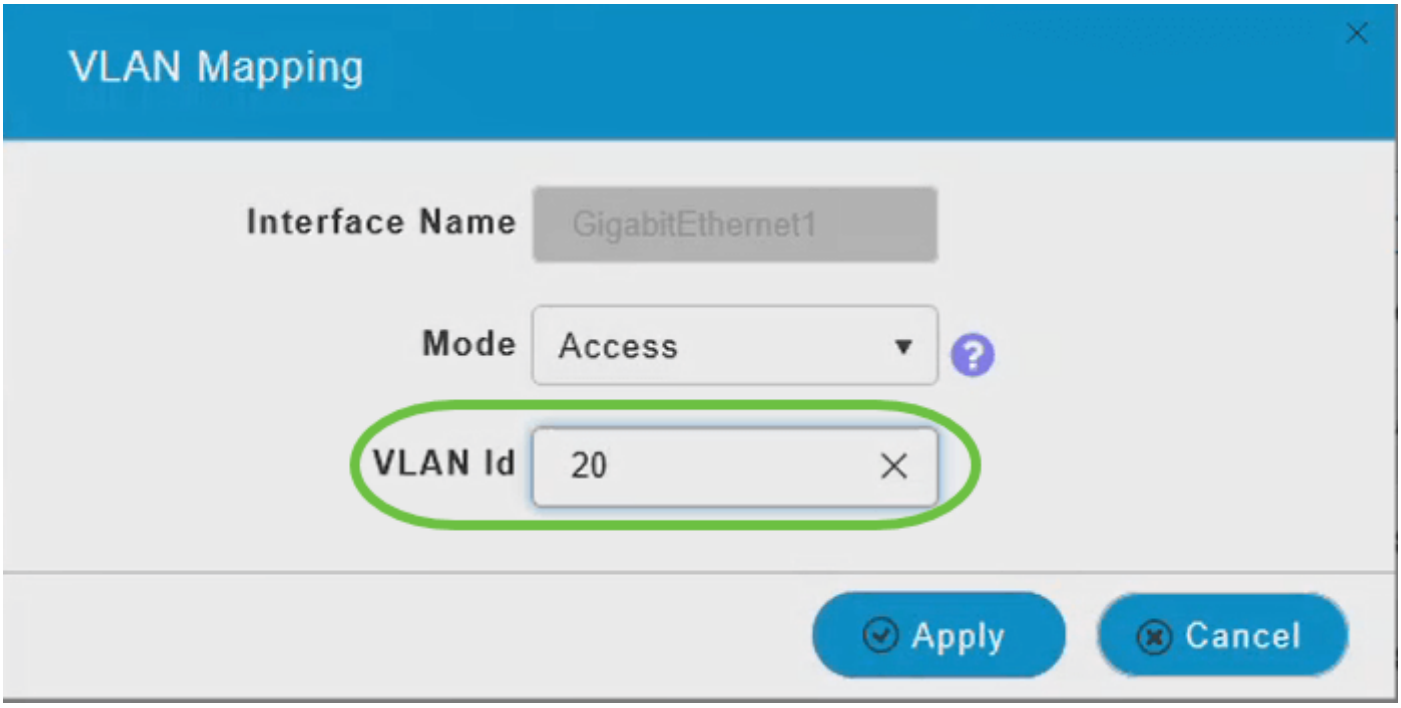
To configure an Ethernet interface as an Access port, in the *Mode* tab, select **Access** from the drop-down menu.



An access port can have only one VLAN configured on the interface; it can carry traffic for only one VLAN.

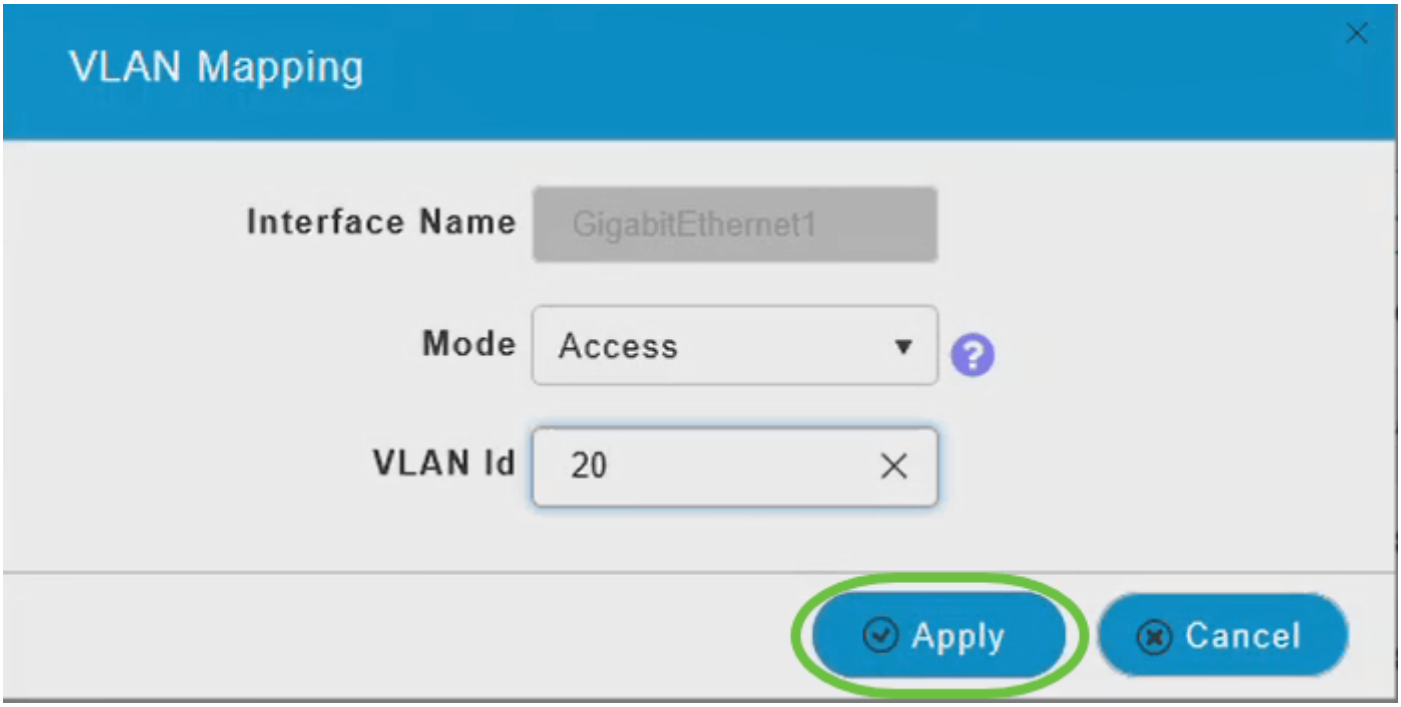
Step 6

In the *VLAN Id* field, specify the VLAN.

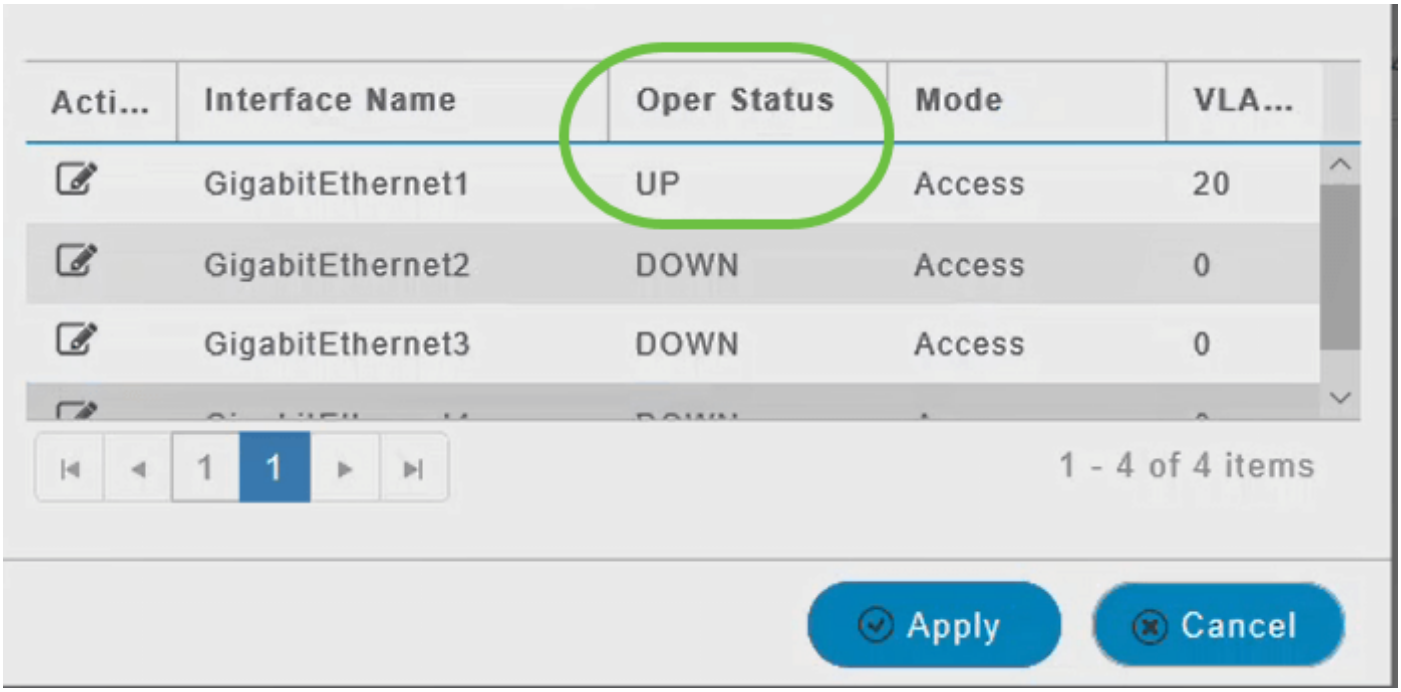


Step 7

Click **Apply**.

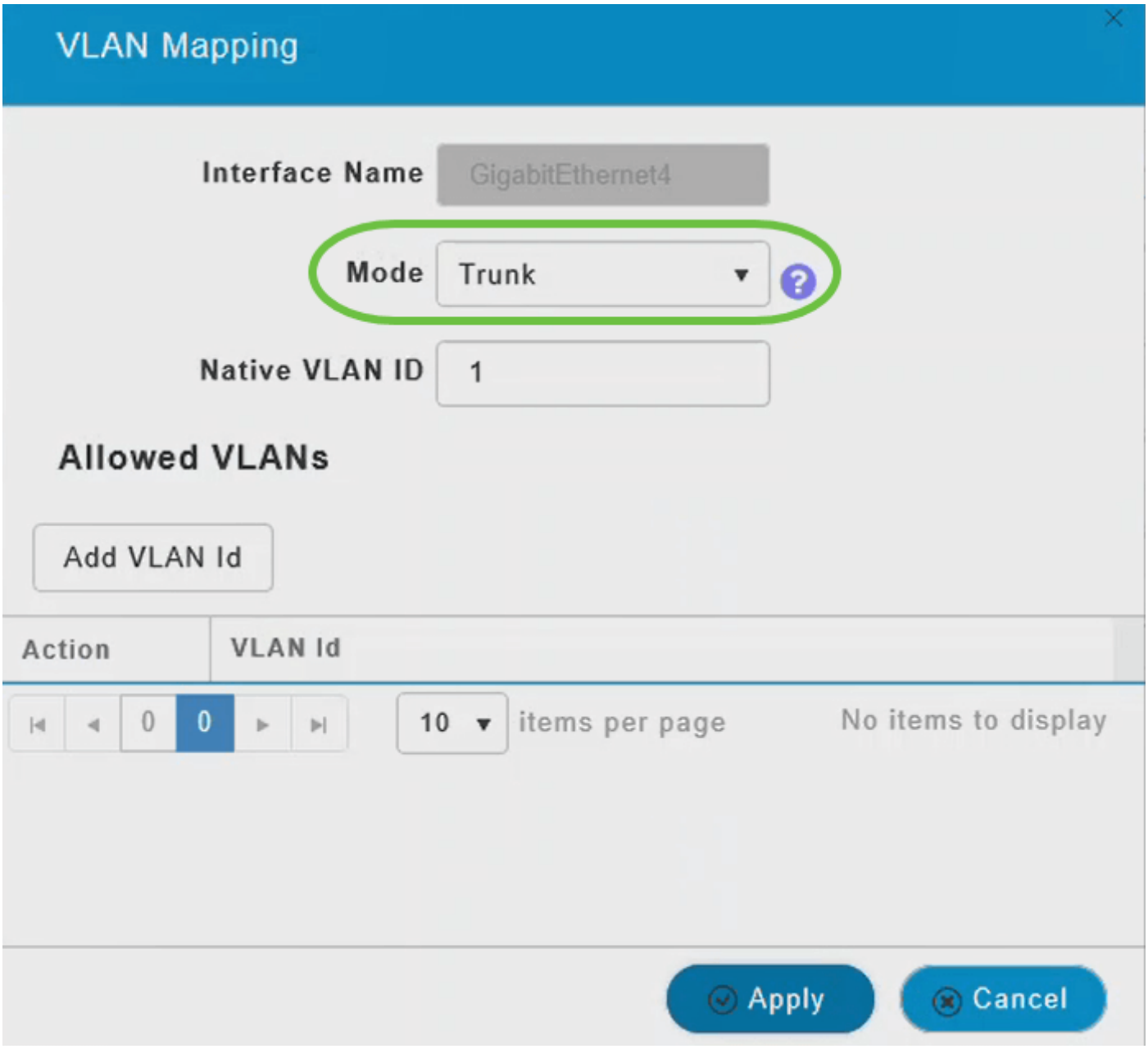


The *Operational Status* changes to *UP* when an Ethernet port is connected to a client.



Step 8

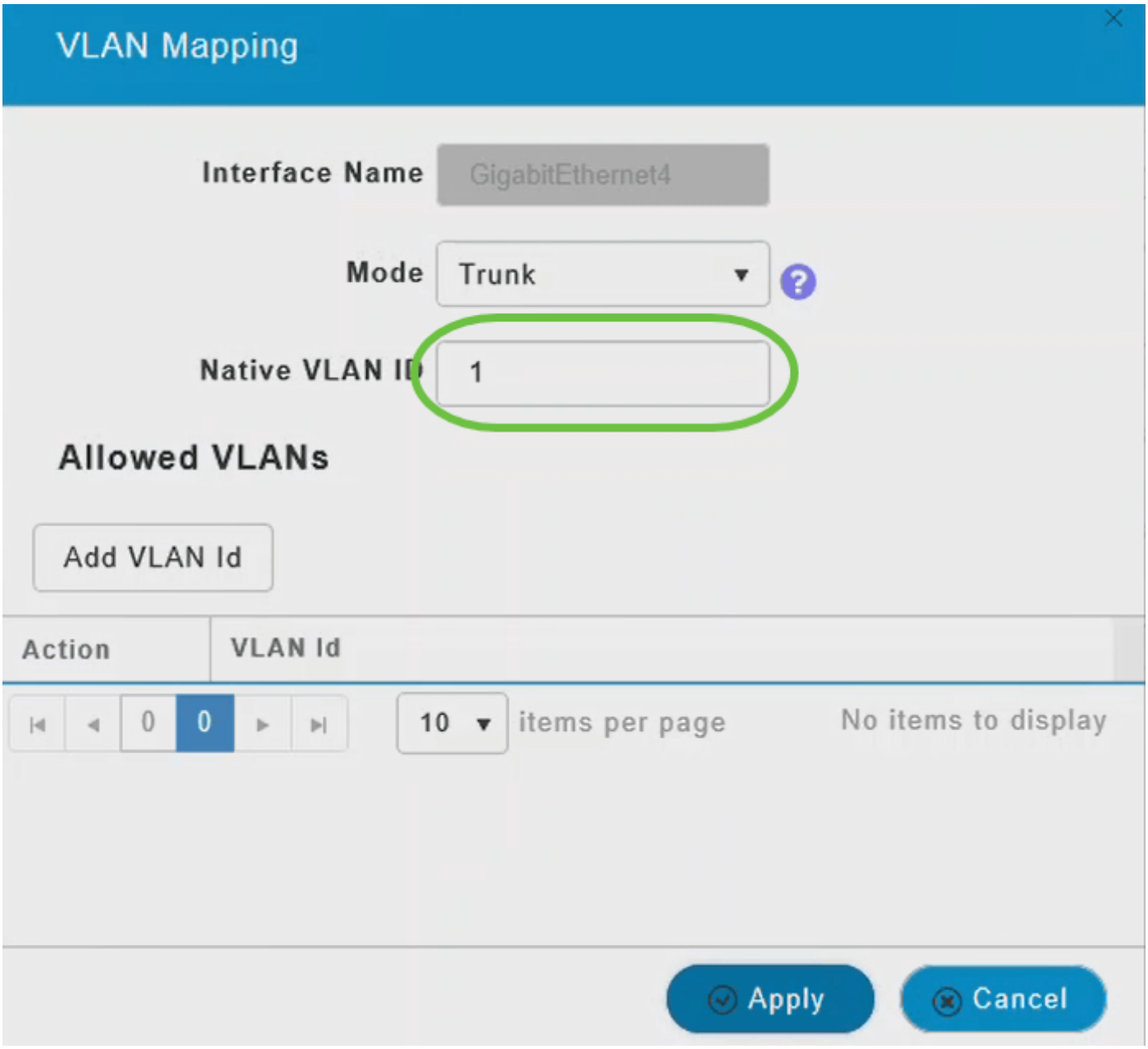
To configure an Ethernet interface as a Trunk port, in *Mode* section, select **Trunk** from the drop-down menu.



A trunk port can have two or more VLANs configured on the interface; it can carry traffic for several VLANs simultaneously.

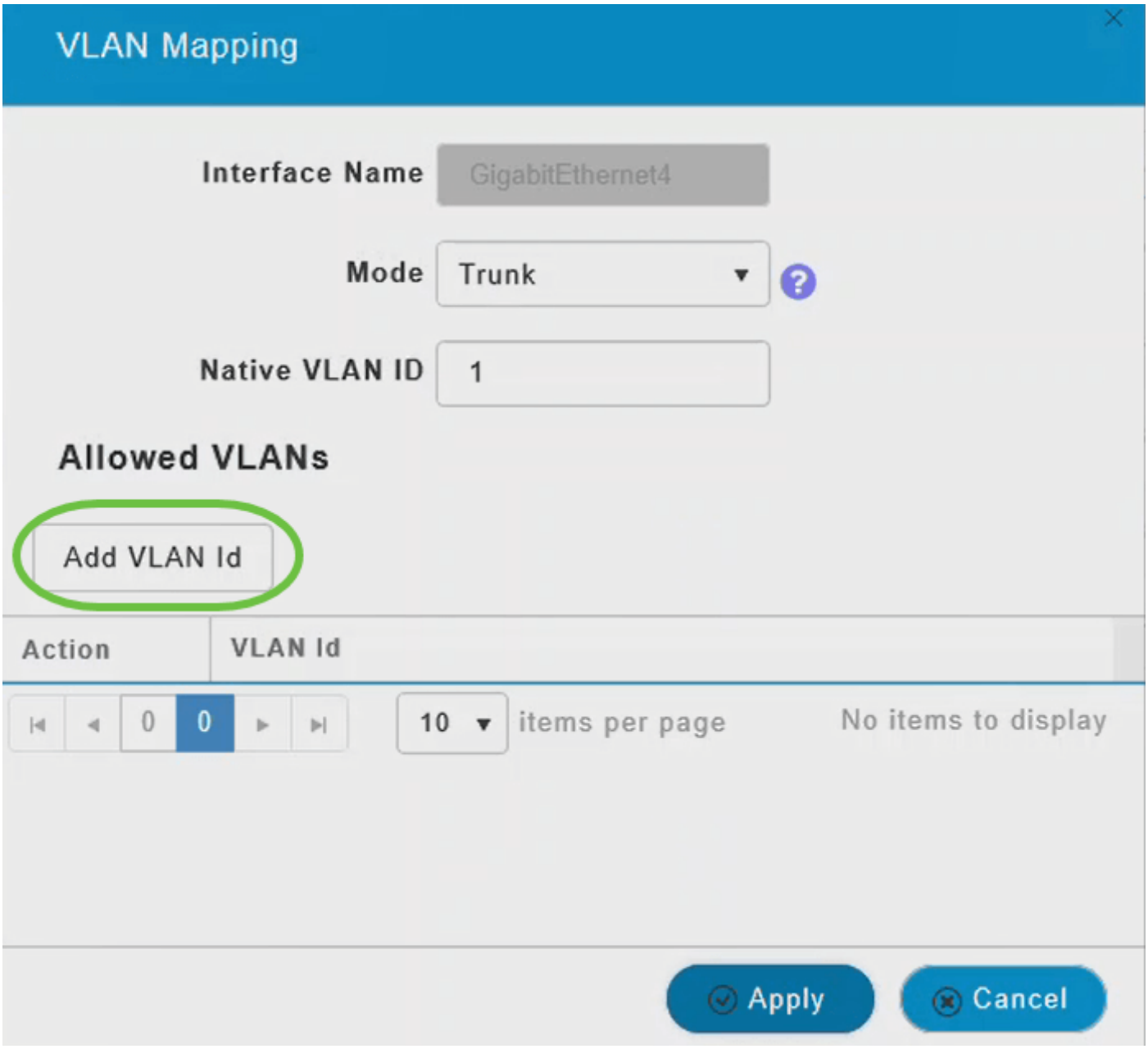
Step 9

Enter the *Native VLAN ID*. The default native VLAN is **1**.



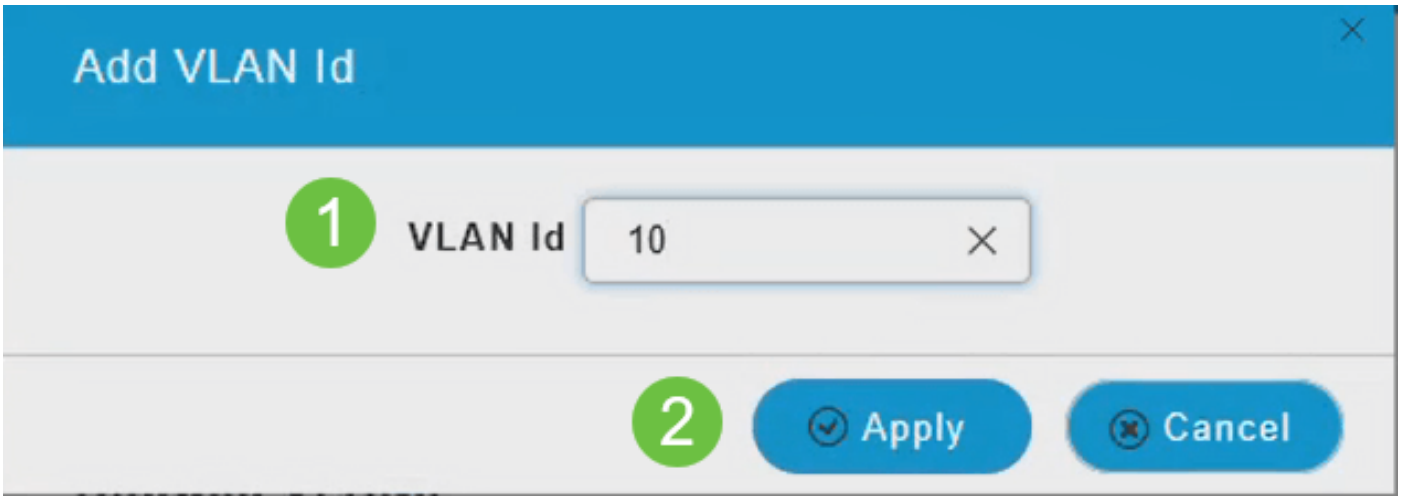
Step 10

Click **Add VLAN Id** to add other VLANs to the trunk port.

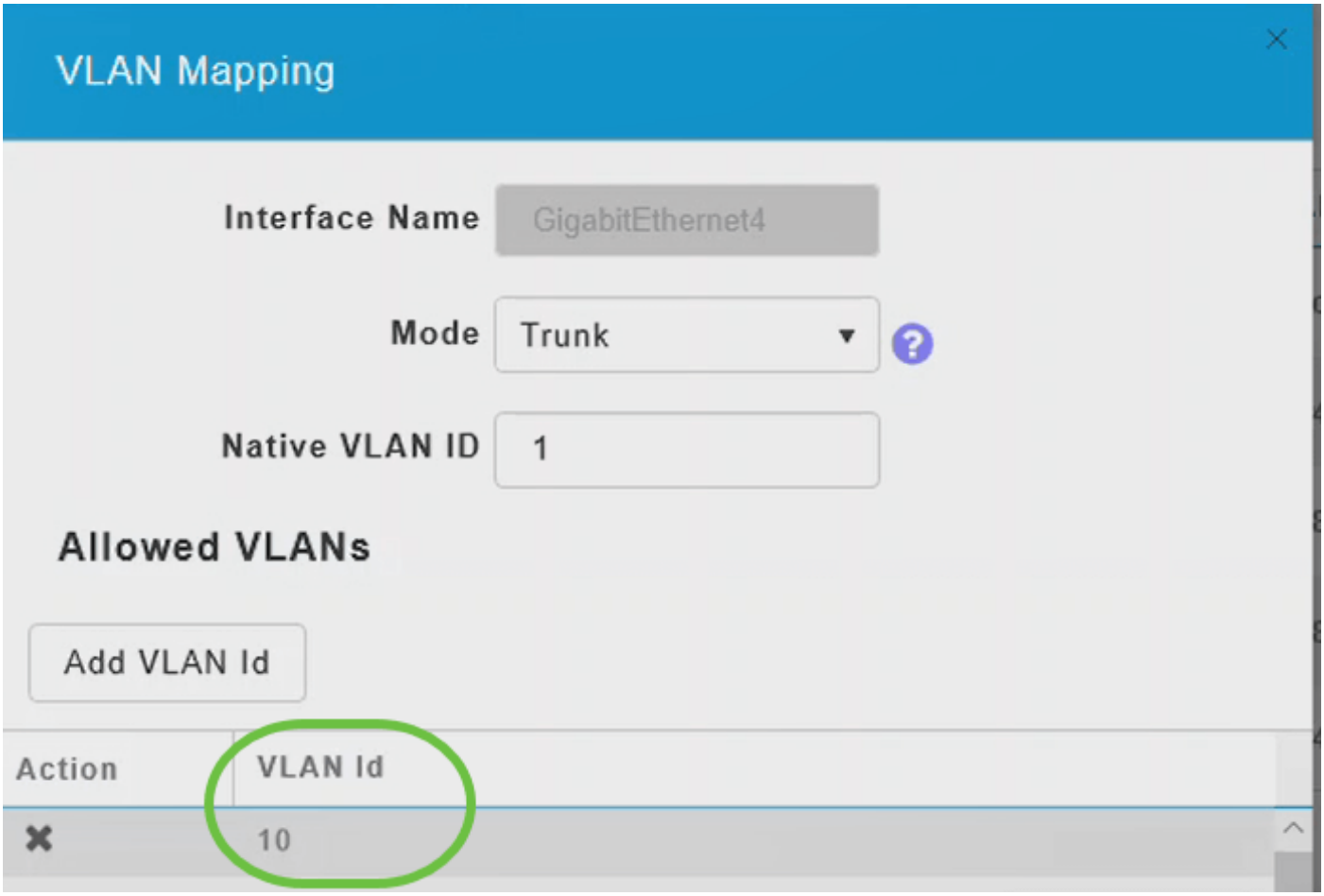


Step 11

Enter the *VLAN Id* and click **Apply**.

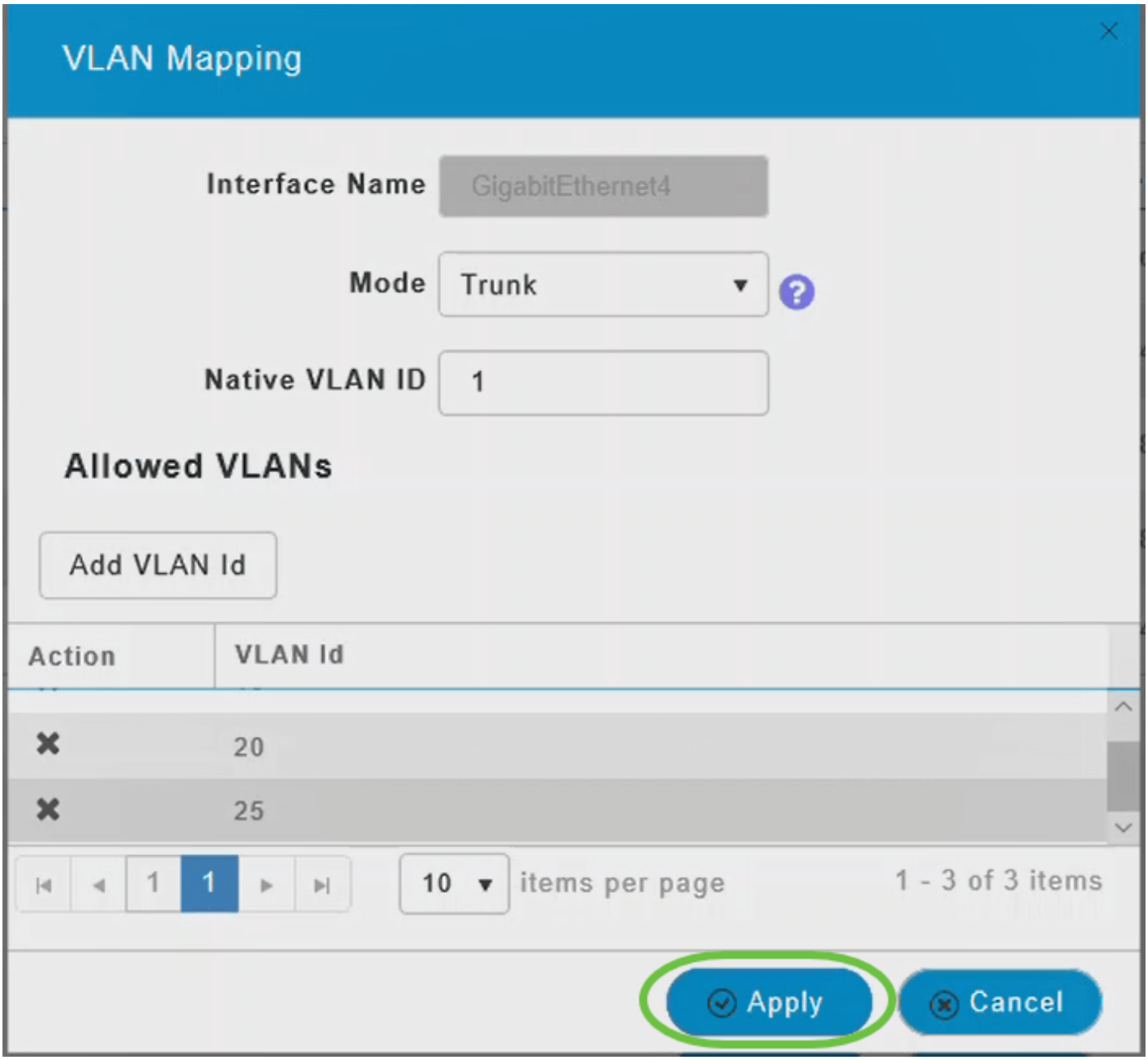


The VLAN added will appear under the VLAN Id tab.



Step 12

Click **Apply**.



This configuration has to be performed on every access point individually. The configurations are also saved in each individual device and not in the controller configuration.

There you have it! You have now successfully completed configuring the Ethernet ports of your CBW APs in Mesh mode. For more advanced configurations, refer to the *Cisco Business Wireless Access Point Administration Guide.*

Frequently Asked Questions Radius Firmware Upgrade RLANs Application Profiling Client Profiling Primary AP Tools Umbrella WLAN Users Logging Traffic Shaping Rogues Interferers Configuration Management Port Configuration Mesh Mode Welcome to CBW Mesh Networking Guest Network using Email Authentication and RADIUS Accounting Troubleshooting Using a Draytek Router with CBW